



US009444868B2

(12) **United States Patent**
White et al.

(10) **Patent No.:** **US 9,444,868 B2**

(45) **Date of Patent:** **Sep. 13, 2016**

(54) **SYSTEM TO COMMUNICATE MEDIA**

H04W 4/06; H04W 88/06; G06F 3/04842;

G06F 3/0488; G06F 3/0482; H04L 65/60;

H04L 67/02

(71) Applicant: **Affinity Labs of Texas, LLC**, Dripping Springs, TX (US)

See application file for complete search history.

(72) Inventors: **Russell W. White**, Austin, TX (US);
Kevin R. Imes, Austin, TX (US)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,582,926 A	6/1971	Hassan
4,291,749 A	9/1981	Ootsuka et al.
4,314,232 A	2/1982	Tsunoda
4,337,821 A	7/1982	Saito

(Continued)

(73) Assignee: **Affinity Labs of Texas, LLC**, Austin, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

FOREIGN PATENT DOCUMENTS

(21) Appl. No.: **14/747,002**

CA	2225910	12/1997
CN	1218258	6/1999

(Continued)

(22) Filed: **Jun. 23, 2015**

(65) **Prior Publication Data**

US 2015/0312309 A1 Oct. 29, 2015

OTHER PUBLICATIONS

Krebs, M., "Cars That Tell You Where to Go," The New York Times, Dec. 15, 1996, section 11, p. 1.

(Continued)

Related U.S. Application Data

(63) Continuation of application No. 14/168,201, filed on Jan. 30, 2014, now Pat. No. 9,094,802, which is a continuation of application No. 13/854,232, filed on Apr. 1, 2013, now Pat. No. 8,688,085, which is a

(Continued)

(51) **Int. Cl.**
H04W 8/22 (2009.01)
H04W 4/02 (2009.01)
H04L 29/06 (2006.01)
H04L 29/08 (2006.01)

(52) **U.S. Cl.**
CPC **H04L 65/602** (2013.01); **H04L 65/607** (2013.01); **H04L 67/02** (2013.01); **H04L 67/1095** (2013.01)

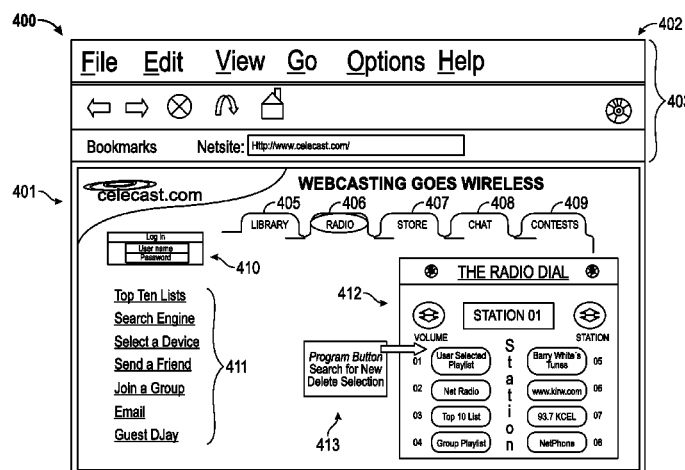
(58) **Field of Classification Search**
CPC G06Q 30/0267; G06Q 30/0269;
G11B 31/02; H04M 1/6091; H04W 84/12;

Primary Examiner — Kashif Siddiqui

(57) **ABSTRACT**

A system for communicating media is disclosed. Such a system may include, for example, a media broken into a plurality of independent segment files that may represent sequential portions of the media. One of the segment files can be encoded to have a format that is different than the encoded format of another one of the segment files. The formats may be chosen to allow outputting of information in the segments at different rates. A list may include network addresses for the segment files, and a content delivery system may be deployed to distribute media content to remotely located requesting devices by sending the segment files in response to requests for the segment files.

20 Claims, 8 Drawing Sheets



Related U.S. Application Data

continuation of application No. 13/117,507, filed on May 27, 2011, now Pat. No. 8,521,140, which is a continuation of application No. 12/495,190, filed on Jun. 30, 2009, now Pat. No. 7,953,390, which is a continuation of application No. 12/015,320, filed on Jan. 16, 2008, now Pat. No. 7,778,595, which is a continuation of application No. 10/947,755, filed on Sep. 23, 2004, now Pat. No. 7,324,833, which is a continuation of application No. 09/537,812, filed on Mar. 28, 2000, now Pat. No. 7,187,947.

(56)

References Cited

U.S. PATENT DOCUMENTS

4,401,848 A	8/1983	Tsunoda	5,400,246 A	3/1995	Wilson et al.
4,407,564 A	10/1983	Ellis	5,404,443 A	4/1995	Hirata
4,419,730 A	12/1983	Ito et al.	5,408,686 A	4/1995	Mankovitz
4,441,405 A	4/1984	Takeuchi	5,410,326 A	4/1995	Goldstein
4,481,584 A	11/1984	Holland	5,414,439 A	5/1995	Groves et al.
4,536,739 A	8/1985	Nobuta	5,416,318 A	5/1995	Hegyi
4,570,217 A	2/1986	Allen et al.	5,418,962 A	5/1995	Bodin et al.
4,582,389 A	4/1986	Wood et al.	5,420,573 A	5/1995	Tanaka et al.
4,636,782 A	1/1987	Nakamura et al.	5,422,565 A	6/1995	Swanson
4,716,458 A	12/1987	Heitzman et al.	5,432,904 A	7/1995	Wong
4,731,769 A	3/1988	Schaefer	5,440,428 A	8/1995	Hegg et al.
4,740,779 A	4/1988	Cleary et al.	5,442,553 A	8/1995	Parrillo
4,740,780 A	4/1988	Brown et al.	5,442,557 A	8/1995	Kaneko
4,752,824 A	6/1988	Moore	5,450,321 A	9/1995	Crane
4,795,223 A	1/1989	Moss	5,450,471 A	9/1995	Hanawa et al.
4,802,492 A	2/1989	Grunstein	5,450,613 A	9/1995	Takahara et al.
4,807,292 A	2/1989	Sorscher	5,475,399 A	12/1995	Borsuk
4,809,177 A	2/1989	Windle et al.	5,475,835 A	12/1995	Hickey
4,812,843 A	3/1989	Champion, III et al.	5,479,157 A	12/1995	Suman et al.
4,817,203 A	3/1989	Tsurumoto et al.	5,483,632 A	1/1996	Kuwamoto et al.
4,818,048 A	4/1989	Moss	5,486,840 A	1/1996	Borrego et al.
4,827,520 A	5/1989	Zeinstra	5,488,357 A	1/1996	Sato et al.
4,837,551 A	6/1989	Iino	5,493,658 A	2/1996	Chiang et al.
4,876,594 A	10/1989	Schiffman	5,497,271 A	3/1996	Mulvanny et al.
4,905,272 A	2/1990	Van de Mortel et al.	5,504,482 A	4/1996	Schreder
4,914,705 A	4/1990	Nigawara	5,504,622 A	4/1996	Oikawa et al.
4,977,509 A	12/1990	Pitchford et al.	5,506,595 A	4/1996	Fukano et al.
4,988,976 A	1/1991	Lu	5,511,724 A	4/1996	Freiberger et al.
4,995,258 A	2/1991	Frank	5,519,410 A	5/1996	Smalanskas et al.
4,996,959 A	3/1991	Akimoto	5,523,559 A	6/1996	Swanson
4,999,622 A	3/1991	Amano et al.	5,524,051 A	6/1996	Ryan
5,006,829 A	4/1991	Miyamoto et al.	5,525,977 A	6/1996	Suman
5,051,735 A	9/1991	Furukawa	5,528,248 A	6/1996	Steiner et al.
5,070,323 A	12/1991	Iino et al.	5,528,496 A	6/1996	Brauer et al.
5,124,915 A	6/1992	Krenzel	5,532,684 A	7/1996	Katsu
5,164,904 A	11/1992	Sumner	5,534,888 A	7/1996	Lebby et al.
5,179,385 A	1/1993	O'Loughlin et al.	5,539,635 A	7/1996	Larson
5,198,797 A	3/1993	Daidoji	5,539,645 A	7/1996	Mandhyan et al.
5,203,499 A	4/1993	Knittel	5,539,658 A	7/1996	McCullough
5,214,413 A	5/1993	Okabayashi et al.	5,539,869 A	7/1996	Spoto et al.
5,214,707 A	5/1993	Fujimoto et al.	5,543,789 A	8/1996	Behr et al.
5,214,793 A	5/1993	Conway et al.	5,547,125 A	8/1996	Hennessee et al.
5,239,700 A	8/1993	Guenther et al.	5,553,661 A	9/1996	Beyerlein et al.
5,257,190 A	10/1993	Crane	5,555,172 A	9/1996	Potter
5,270,689 A	12/1993	Hermann	5,555,286 A	9/1996	Tendler
5,274,560 A	12/1993	LaRue	5,555,502 A	9/1996	Opel
5,278,532 A	1/1994	Hegg et al.	5,557,541 A	9/1996	Schulhof et al.
5,293,115 A	3/1994	Swanson	5,568,390 A	10/1996	Hirota et al.
5,299,132 A	3/1994	Wortham	5,572,442 A	11/1996	Schulhof
5,307,326 A	4/1994	Osawa	5,576,724 A	11/1996	Fukatsu et al.
5,327,558 A	7/1994	Burke et al.	5,586,090 A	12/1996	Otte
5,335,743 A	8/1994	Gillbrand et al.	5,587,560 A	12/1996	Crooks et al.
5,341,350 A	8/1994	Frank	5,589,090 A	12/1996	Song
5,345,817 A	9/1994	Grenn et al.	5,594,709 A	1/1997	Nagano et al.
5,351,041 A	9/1994	Ikata et al.	5,594,779 A	1/1997	Goodman
5,361,165 A	11/1994	Stringfellow et al.	5,596,319 A	1/1997	Spry
5,363,355 A	11/1994	Takagi	5,604,676 A	2/1997	Penzias
5,371,510 A	12/1994	Miyauchi et al.	5,604,731 A	2/1997	Grossglauser et al.
5,388,248 A	2/1995	Robinson et al.	5,614,895 A	3/1997	Ohomori et al.
5,400,045 A	3/1995	Aoki	5,616,876 A	4/1997	Cluts
			5,619,412 A	4/1997	Hapka
			5,621,252 A	4/1997	Bucknam
			5,625,608 A	4/1997	Grewe et al.
			5,625,668 A	4/1997	Loomis et al.
			5,627,547 A	5/1997	Ramaswamy et al.
			5,638,305 A	6/1997	Kobayashi et al.
			5,639,305 A	6/1997	Brown et al.
			5,646,608 A	7/1997	Shintani
			5,650,929 A	7/1997	Potter et al.
			5,653,386 A	8/1997	Hennessee et al.
			5,654,715 A	8/1997	Hayashikura et al.
			5,657,221 A	8/1997	Warman et al.
			5,661,652 A	8/1997	Sprague et al.
			5,664,228 A	9/1997	Mital
			5,666,102 A	9/1997	Lahiff
			5,670,953 A	9/1997	Satoh et al.
			5,677,837 A	10/1997	Reynolds
			5,682,525 A	10/1997	Bouve et al.
			5,684,490 A	11/1997	Young et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

5,691,695	A	11/1997	Lahiff	6,009,355	A	12/1999	Obradovich et al.
5,694,120	A	12/1997	Indekeu et al.	6,009,363	A	12/1999	Beckert
5,699,056	A	12/1997	Yoshida	6,014,569	A	1/2000	Bottum
5,699,255	A	12/1997	Ellis et al.	6,014,689	A	1/2000	Budge et al.
5,702,165	A	12/1997	Koibuchi	6,014,693	A	1/2000	Ito et al.
5,712,640	A	1/1998	Andou et al.	6,018,571	A	1/2000	Langlois et al.
5,715,474	A	2/1998	Burke et al.	6,023,232	A	2/2000	Eitzenberger
5,721,827	A	2/1998	Logan et al.	6,023,241	A	2/2000	Clapper
5,732,216	A	3/1998	Logan et al.	6,029,064	A	2/2000	Farris et al.
5,734,973	A	3/1998	Honda	6,032,089	A	2/2000	Buckley
5,737,706	A	4/1998	Seazholtz	6,041,023	A	3/2000	Lakhansingh
5,742,226	A	4/1998	Szabo et al.	6,041,345	A	3/2000	Levi et al.
5,742,893	A	4/1998	Frank	6,047,234	A	4/2000	Cherveney et al.
5,752,754	A	5/1998	Amitani et al.	6,047,327	A	4/2000	Tso et al.
5,754,774	A	5/1998	Bittinger et al.	6,055,478	A	4/2000	Heron
5,754,775	A	5/1998	Adamson et al.	6,061,306	A	5/2000	Buchheim
5,757,359	A	5/1998	Morimoto et al.	6,083,009	A	7/2000	Kim et al.
5,758,311	A	5/1998	Tsuji et al.	6,084,584	A	7/2000	Nahi et al.
5,760,742	A	6/1998	Branch et al.	6,088,455	A	7/2000	Logan et al.
5,772,534	A	6/1998	Dudley	6,088,730	A	7/2000	Kato et al.
5,774,070	A	6/1998	Rendon	6,091,067	A	7/2000	Drobot et al.
5,774,793	A	6/1998	Cooper et al.	6,100,884	A	8/2000	Tomita et al.
5,774,827	A	6/1998	Smith, Jr. et al.	6,104,334	A	8/2000	Allport
5,777,394	A	7/1998	Arold	6,114,970	A	9/2000	Kirson et al.
5,790,973	A	8/1998	Blaker et al.	6,115,669	A	9/2000	Watanabe et al.
5,790,974	A	8/1998	Tognazzini	6,121,282	A	9/2000	Dominianni et al.
5,794,164	A	8/1998	Beckert et al.	6,122,403	A	9/2000	Rhoads
5,797,089	A	8/1998	Nguyen	6,128,559	A	10/2000	Saitou et al.
5,798,759	A	8/1998	Dahl	6,131,060	A	10/2000	Obradovich et al.
5,802,492	A	9/1998	DeLorme et al.	6,133,853	A	10/2000	Obradovich et al.
5,806,018	A	9/1998	Smith et al.	6,144,358	A	11/2000	Narayanaswamy et al.
5,808,224	A	9/1998	Kato	6,144,848	A	11/2000	Walsh et al.
5,808,566	A	9/1998	Behr et al.	6,147,938	A	11/2000	Ogawa et al.
5,812,870	A	9/1998	Kikinis et al.	6,148,261	A	11/2000	Obradovich et al.
5,819,160	A	10/1998	Foladare et al.	6,150,925	A	11/2000	Casazza
5,822,098	A	10/1998	Morgaine	6,151,634	A	11/2000	Glaser
5,835,732	A	11/1998	Kikinis et al.	6,157,619	A	12/2000	Ozluturk et al.
5,839,108	A	11/1998	Daberko et al.	6,157,725	A	12/2000	Becker
5,852,610	A	12/1998	Olanian	6,160,551	A	12/2000	Naughton
5,852,775	A	12/1998	Hidary	6,161,071	A	12/2000	Shuman et al.
5,864,305	A	1/1999	Rosenquist	6,163,079	A	12/2000	Miyazaki et al.
5,867,494	A	2/1999	Krishnaswamy et al.	6,163,711	A	12/2000	Juntunen et al.
5,870,680	A	2/1999	Guerlin et al.	6,167,253	A	12/2000	Farris et al.
5,875,412	A	2/1999	Sulich et al.	6,169,515	B1	1/2001	Mannings et al.
5,878,282	A	3/1999	Mital	6,175,782	B1	1/2001	Obradovich et al.
5,885,085	A	3/1999	Fujita	6,175,789	B1	1/2001	Beckert et al.
5,889,852	A	3/1999	Rosecrans et al.	6,177,950	B1	1/2001	Robb
5,892,536	A	4/1999	Logan et al.	6,178,403	B1	1/2001	Detlef
5,900,564	A	5/1999	Kurakake	6,178,514	B1	1/2001	Wood
5,908,464	A	6/1999	Kishigami et al.	6,182,006	B1	1/2001	Meek
5,914,941	A	6/1999	Janky	6,185,491	B1	2/2001	Gray et al.
5,917,405	A	6/1999	Joao	6,189,057	B1	2/2001	Schwanz et al.
5,919,239	A	7/1999	Fraker et al.	6,192,340	B1	2/2001	Abecassis
5,919,246	A	7/1999	Waizmann et al.	6,196,846	B1	3/2001	Berger et al.
5,926,624	A	7/1999	Katz et al.	6,199,076	B1	3/2001	Logan et al.
5,940,767	A	8/1999	Bourgeois et al.	6,201,540	B1	3/2001	Gallup et al.
5,953,005	A	9/1999	Liu	6,202,008	B1	3/2001	Beckert et al.
5,953,657	A	9/1999	Ghisler	6,225,984	B1	5/2001	Crawford
5,953,659	A	9/1999	Kotzin et al.	6,230,322	B1	5/2001	Saib et al.
5,956,029	A	9/1999	Okada et al.	6,232,539	B1	5/2001	Looney et al.
5,956,651	A	9/1999	Willkie	6,233,430	B1	5/2001	Helferich
5,963,916	A	10/1999	Kaplan	6,236,832	B1	5/2001	Ito
5,969,283	A	10/1999	Looney et al.	6,236,918	B1	5/2001	Sonoda et al.
5,969,826	A	10/1999	Dash et al.	6,240,297	B1	5/2001	Jadoul
5,974,333	A	10/1999	Chen	6,240,347	B1	5/2001	Everhart et al.
5,982,298	A	11/1999	Lappenbusch et al.	6,243,725	B1	6/2001	Hempleman et al.
5,987,381	A	11/1999	Oshizawa	6,246,672	B1	6/2001	Lumelsky
5,987,394	A	11/1999	Takakura et al.	6,246,935	B1	6/2001	Buckley
5,990,803	A	11/1999	Park	6,247,130	B1	6/2001	Fritsch
5,991,640	A	11/1999	Lilja et al.	6,248,946	B1	6/2001	Dwek
5,999,525	A	12/1999	Krishnaswamy et al.	6,253,061	B1	6/2001	Helferich
5,999,877	A	12/1999	Takahashi et al.	6,255,961	B1	7/2001	Van Ryzin et al.
6,006,115	A	12/1999	Wingate	6,259,892	B1	7/2001	Helferich
6,006,161	A	12/1999	Katou	6,262,724	B1	7/2001	Crow et al.
6,007,228	A	12/1999	Agarwal	6,275,231	B1	8/2001	Obradovich
				6,275,496	B1	8/2001	Burns et al.
				6,278,531	B1	8/2001	Tesavis
				6,278,676	B1	8/2001	Anderson et al.
				6,278,842	B1	8/2001	Yamazaki et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

6,278,884 B1	8/2001	Kim	6,587,825 B1	7/2003	Gleitz et al.
6,282,464 B1	8/2001	Obradovich	6,587,835 B1	7/2003	Treyz et al.
6,289,382 B1	9/2001	Bowman-Amuah	6,591,085 B1	7/2003	Grady
6,292,440 B1	9/2001	Lee	6,594,723 B1	7/2003	Chapman et al.
6,292,743 B1	9/2001	Pu et al.	6,594,740 B1	7/2003	Fukuda
6,301,116 B1	10/2001	Tamura	6,594,774 B1	7/2003	Chapman et al.
6,314,094 B1	11/2001	Boys	6,601,192 B1	7/2003	Bowman-Amuah
6,314,326 B1	11/2001	Fuchu	6,601,234 B1	7/2003	Bowman-Amuah
6,317,784 B1	11/2001	Mackintosh	6,606,082 B1	8/2003	Zuberec et al.
6,330,247 B1	12/2001	Chang	6,606,660 B1	8/2003	Bowman-Amuah
6,332,163 B1	12/2001	Bowman-Amuah	6,606,744 B1	8/2003	Mikurak
6,335,927 B1	1/2002	Elliott et al.	6,608,832 B2	8/2003	Forslow
6,338,044 B1	1/2002	Cook	6,609,105 B2	8/2003	Van Zoest et al.
6,339,706 B1	1/2002	Tillgren et al.	6,615,199 B1	9/2003	Bowman-Amuah
6,339,832 B1	1/2002	Bowman-Amuah	6,615,253 B1	9/2003	Bowman-Amuah
6,344,861 B1	2/2002	Naughton et al.	6,618,039 B1	9/2003	Grant et al.
6,349,352 B1	2/2002	Lea	6,622,083 B1	9/2003	Knockheart et al.
6,353,537 B2	3/2002	Egawa	6,629,000 B1	9/2003	Moon et al.
6,353,637 B1	3/2002	Mansour et al.	6,629,197 B1	9/2003	Bhogal et al.
6,363,240 B2	3/2002	Ito	6,633,314 B1	10/2003	Tuli
6,377,825 B1	4/2002	Kennedy et al.	6,633,932 B1	10/2003	Bork et al.
6,389,463 B2	5/2002	Bolas et al.	6,636,242 B2	10/2003	Bowman-Amuah
6,389,467 B1	5/2002	Eyal	6,639,584 B1	10/2003	Li
6,396,164 B1	5/2002	Barnea et al.	6,640,238 B1	10/2003	Bowman-Amuah
6,396,769 B1	5/2002	Polany	6,640,244 B1	10/2003	Bowman-Amuah
6,401,085 B1	6/2002	Gershman et al.	6,640,249 B1	10/2003	Bowman-Amuah
6,407,750 B1	6/2002	Gioscia et al.	6,640,306 B1	10/2003	Tone et al.
6,418,138 B1	7/2002	Cerf et al.	6,654,367 B1	11/2003	Kaufman
6,418,330 B1	7/2002	Lee	6,658,247 B1	12/2003	Saito
6,418,421 B1	7/2002	Hurtado et al.	6,671,567 B1	12/2003	Dwyer et al.
6,420,975 B1	7/2002	DeLine et al.	6,671,715 B1	12/2003	Langseth et al.
6,421,305 B1	7/2002	Gioscia et al.	6,671,745 B1	12/2003	Mathur et al.
6,422,941 B1	7/2002	Thorner et al.	6,671,818 B1	12/2003	Mikurak
6,425,018 B1	7/2002	Kaganas et al.	6,675,201 B1	1/2004	Parkkinen
6,434,459 B2	8/2002	Wong et al.	6,675,233 B1	1/2004	Du
6,434,568 B1	8/2002	Bowman-Amuah	6,678,215 B1	1/2004	Treyz
6,434,628 B1	8/2002	Bowman-Amuah	6,681,120 B1	1/2004	Kim
6,438,594 B1	8/2002	Bowman-Amuah	6,694,200 B1	2/2004	Naim
6,442,748 B1	8/2002	Bowman-Amuah	6,697,824 B1	2/2004	Bowman-Amuah
6,446,080 B1	9/2002	Van Ryzin et al.	6,697,944 B1	2/2004	Jones et al.
6,449,541 B1	9/2002	Goldberg et al.	6,704,394 B1	3/2004	Kambhatla et al.
6,453,281 B1	9/2002	Walters	6,707,889 B1	3/2004	Saylor et al.
6,456,892 B1	9/2002	Dara-Abrams et al.	6,708,086 B2	3/2004	Richard
6,476,825 B1	11/2002	Croy	6,715,145 B1	3/2004	Bowman-Amuah
6,477,580 B1	11/2002	Bowman-Amuah	6,721,489 B1	4/2004	Benyamin et al.
6,477,665 B1	11/2002	Bowman-Amuah	6,721,710 B1	4/2004	Lueck
6,480,541 B1	11/2002	Girod et al.	6,721,741 B1	4/2004	Eyal et al.
6,487,663 B1	11/2002	Jaisimha	6,725,022 B1	4/2004	Clayton et al.
6,493,546 B2	12/2002	Patsiokas	6,728,531 B1	4/2004	Lee
6,493,743 B2	12/2002	Suzuki	6,731,625 B1	5/2004	Eastep et al.
6,496,205 B1	12/2002	White et al.	6,741,980 B1	5/2004	Langseth et al.
6,496,692 B1	12/2002	Shanahan	6,742,015 B1	5/2004	Bowman-Amuah
6,496,850 B1	12/2002	Bowman-Amuah	6,748,278 B1	6/2004	Maymudes
6,501,832 B1	12/2002	Saylor et al.	6,748,427 B2	6/2004	Drosset et al.
6,502,139 B1	12/2002	Birk et al.	6,754,181 B1	6/2004	Elliott et al.
6,502,213 B1	12/2002	Bowman-Amuah	6,760,916 B2	7/2004	Holtz et al.
6,507,762 B1	1/2003	Amro et al.	6,772,212 B1	8/2004	Lau et al.
6,509,716 B2	1/2003	Yi	6,786,528 B2	9/2004	Guillez
6,510,210 B1	1/2003	Baughan	6,788,528 B2	9/2004	Enners et al.
6,510,325 B1	1/2003	Mack, II et al.	6,791,907 B2	9/2004	Berhan
6,516,466 B1	2/2003	Jackson	6,792,086 B1	9/2004	Saylor et al.
6,526,335 B1	2/2003	Treyz et al.	6,792,263 B1	9/2004	Kite
6,529,909 B1	3/2003	Bowman-Amuah	6,792,615 B1	9/2004	Rowe et al.
6,529,948 B1	3/2003	Bowman-Amuah	6,823,255 B2	11/2004	Ahrens et al.
6,539,396 B1	3/2003	Bowman-Amuah	6,832,316 B1	12/2004	Sibert
6,549,942 B1	4/2003	Janky et al.	6,842,906 B1	1/2005	Bowman-Amuah
6,549,949 B1	4/2003	Bowman-Amuah	6,845,398 B1	1/2005	Galensky et al.
6,550,057 B1	4/2003	Bowman-Amuah	6,862,357 B1	3/2005	Albus et al.
6,559,773 B1	5/2003	Berry	6,888,927 B1	5/2005	Cruickshank et al.
6,564,243 B1	5/2003	Yedidia et al.	6,888,929 B1	5/2005	Saylor et al.
6,571,282 B1	5/2003	Bowman-Amuah	6,892,067 B1	5/2005	Sharma et al.
6,578,068 B1	6/2003	Bowman-Amuah	6,901,067 B1	5/2005	Kalavade
6,584,403 B2	6/2003	Bunn	6,904,264 B1	6/2005	Frantz
6,587,127 B1	7/2003	Leeke et al.	6,904,449 B1	6/2005	Quinones
6,587,684 B1	7/2003	Hsu et al.	6,907,112 B1	6/2005	Guedalia et al.
			6,909,708 B1	6/2005	Krishnaswamy et al.
			6,912,514 B2	6/2005	Matsushima et al.
			6,915,272 B1	7/2005	Zilliacus
			6,917,923 B1	7/2005	Dimenstein

(56)

References Cited

U.S. PATENT DOCUMENTS

6,928,468 B2 8/2005 Leermakers
 6,956,833 B1 10/2005 Yukie et al.
 6,963,783 B1 11/2005 Bi et al.
 6,963,784 B1 11/2005 Gibbs
 6,966,065 B1 11/2005 Kitazato et al.
 6,970,915 B1 11/2005 Partovi et al.
 6,975,612 B1 12/2005 Razavi et al.
 6,975,835 B1 12/2005 Lake et al.
 6,978,127 B1 12/2005 Bulthuis et al.
 6,990,208 B1 1/2006 Lau et al.
 6,990,334 B1 1/2006 Ito
 6,990,464 B1 1/2006 Pirillo
 7,013,151 B2 3/2006 Hirokawa
 7,020,704 B1 3/2006 Lipscomb et al.
 7,058,376 B2 6/2006 Logan et al.
 7,065,342 B1 6/2006 Rolf
 7,085,710 B1 8/2006 Beckert et al.
 7,120,462 B2 10/2006 Kumar
 7,123,936 B1 10/2006 Rydbeck et al.
 7,124,101 B1 10/2006 Mikurak
 7,130,807 B1 10/2006 Mikurak
 7,139,626 B2 11/2006 Kataoka et al.
 7,145,898 B1 12/2006 Elliott
 7,149,543 B2 12/2006 Kumar, II
 7,149,772 B1 12/2006 Kalavade
 7,200,357 B2 4/2007 Janik et al.
 7,209,892 B1 4/2007 Galuten et al.
 7,209,943 B1 4/2007 Ching et al.
 7,219,123 B1 5/2007 Fiechter et al.
 7,321,783 B2 1/2008 Kim
 7,321,923 B1 1/2008 Rosenberg et al.
 7,324,833 B2 1/2008 White et al.
 7,339,993 B1 3/2008 Brooks
 7,343,414 B2 3/2008 Lipscomb et al.
 7,346,687 B2 3/2008 Lipscomb et al.
 7,379,541 B2 5/2008 Iggulden et al.
 7,437,485 B1 10/2008 Kruglikov et al.
 7,440,772 B2 10/2008 White et al.
 7,444,353 B1 10/2008 Chen
 7,496,947 B1 2/2009 Meyers
 7,549,007 B1 6/2009 Smith et al.
 7,562,392 B1 7/2009 Rhoads et al.
 7,610,597 B1* 10/2009 Johnson G06Q 30/02
 725/32
 7,711,838 B1 5/2010 Boulter
 7,778,595 B2 8/2010 White et al.
 7,885,340 B2 2/2011 Greenbaum et al.
 7,953,390 B2* 5/2011 White G06Q 30/0267
 455/410
 8,385,912 B2 2/2013 Rolf
 2001/0042107 A1 11/2001 Palm
 2002/0023028 A1 2/2002 Quarendon
 2002/0026442 A1 2/2002 Lipscomb et al.
 2002/0046084 A1 4/2002 Steele et al.
 2002/0058475 A1 5/2002 Patsiokas
 2002/0060701 A1 5/2002 Naughton et al.
 2002/0069244 A1 6/2002 Blair et al.
 2002/0072818 A1 6/2002 Moon et al.
 2002/0112078 A1 8/2002 Yach
 2002/0144271 A1 10/2002 Behagen et al.
 2002/0164973 A1 11/2002 Janik
 2003/0008646 A1 1/2003 Shanahan
 2003/0010633 A1 1/2003 Abiko et al.
 2003/0105718 A1 6/2003 Hurtado et al.
 2003/0126335 A1 7/2003 Silvester
 2003/0163486 A1 8/2003 Van Der Meulen
 2003/0215102 A1 11/2003 Marlowe
 2004/0078274 A1 4/2004 Aamio
 2004/0151327 A1 8/2004 Marlow
 2004/0210765 A1 10/2004 Erickson
 2004/0235514 A1* 11/2004 Bloch G06F 1/163
 455/550.1
 2005/0010633 A1 1/2005 Shanahan
 2005/0049002 A1 3/2005 White et al.
 2005/0054379 A1 3/2005 Cao et al.

2005/0095016 A1 5/2005 Simpson et al.
 2005/0096018 A1 5/2005 White et al.
 2005/0282600 A1 12/2005 Paradice
 2006/0039263 A1 2/2006 Trotabas
 2006/0080741 A1 4/2006 Nair
 2006/0094349 A1 5/2006 Slesak et al.
 2006/0105804 A1 5/2006 Kumar
 2006/0170530 A1* 8/2006 Nwosu G06F 21/32
 340/5.53
 2006/0206493 A1 9/2006 Lipscomb et al.
 2007/0150963 A1 6/2007 Lee et al.
 2010/0275259 A1* 10/2010 Adams G06Q 20/327
 726/19
 2010/0312698 A1* 12/2010 Bonalle G06Q 20/105
 705/41
 2012/0286930 A1* 11/2012 Kim G06Q 20/3278
 340/5.82
 2012/0318863 A1* 12/2012 Kim G06K 19/0704
 235/380
 2012/0325905 A1* 12/2012 Kim G06K 19/07707
 235/380

FOREIGN PATENT DOCUMENTS

CN 1218258 A 6/1999
 CN 1218258 A 6/1999
 DE 4431070 3/1996
 DE 19 651 308 A1 10/1996
 DE 19651308 10/1996
 DE 101 01 702 A1 1/2001
 DE 102 05 641 A1 2/2002
 DE 10205641 A1 2/2002
 DE 44 31 070 B4 7/2004
 DE 4431070 7/2004
 DE 20 2004 013 65 12/2004
 DE 20200401365 12/2004
 EP 333330 9/1989
 EP 0 569 343 A1 10/1993
 EP 0569343 10/1993
 EP 0569243 11/1993
 EP 0661676 12/1994
 EP 0 675 341 A1 4/1995
 EP 0675341 10/1995
 EP 0744839 11/1996
 EP 0 771 686 A2 7/1997
 EP 0771686 7/1997
 EP 0 898 378 A2 2/1999
 EP 0 920 016 A2 2/1999
 EP 0898378 2/1999
 EP 0920016 2/1999
 EP 0 916 408 A2 5/1999
 EP 0918408 5/1999
 EP 0 982 732 A1 1/2000
 EP 0982732 1/2000
 EP 0982732 A1 1/2000
 EP 0982732 A1 1/2000
 EP 984584 8/2000
 EP 1 146 674 A2 10/2001
 EP 1146674 10/2001
 JP 59085599 5/1984
 JP 63-136828 6/1988
 JP 63136828 6/1988
 JP 1018712 1/1989
 JP 1196735 8/1989
 JP 2-301330 12/1990
 JP 2301330 12/1990
 JP H4-261576 9/1992
 JP H4261576 9/1992
 JP 5077679 3/1993
 JP P5077679 3/1993
 JP 5-294250 11/1993
 JP 5294250 11/1993
 JP 6-187597 7/1994
 JP 6187597 7/1994
 JP 6289118 10/1994
 JP 6294659 10/1994
 JP 7036382 2/1995
 JP 07-129895 5/1995
 JP 07129895 5/1995

(56)

References Cited

FOREIGN PATENT DOCUMENTS

JP 07-146155 6/1995
 JP 07146155 6/1995
 JP 7-262493 10/1995
 JP 7262493 10/1995
 JP 7270171 10/1995
 JP H08-6875 1/1996
 JP 8-79814 3/1996
 JP 879814 3/1996
 JP H08-79814 3/1996
 JP H0879814 3/1996
 JP 8-110231 4/1996
 JP 8110231 4/1996
 JP 950282 2/1997
 JP 9-61514 3/1997
 JP 9-74580 3/1997
 JP 961514 3/1997
 JP 974580 3/1997
 JP 10-103966 4/1998
 JP 10103966 4/1998
 JP H08-252976 4/1998
 JP 10-143349 5/1998
 JP 10143349 5/1998
 JP 10173737 6/1998
 JP 10-149182 6/1998
 JP 10-173737 A 6/1998
 JP 10149182 6/1998
 JP 10173737 6/1998
 JP 1998-052033 9/1998
 JP 1998052033 9/1998
 JP 3056721 12/1998
 JP 11-68685 3/1999
 JP 11-73192 3/1999
 JP 1168685 3/1999
 JP 1173192 3/1999
 JP 2901445 3/1999
 JP 1196735 4/1999
 JP 11-143791 5/1999
 JP 11143791 5/1999
 JP 1999-0042565 6/1999
 JP 19990042565 6/1999
 JP H11-164058 6/1999
 JP 11-219580 8/1999
 JP 11219580 8/1999
 JP 11-068685 9/1999
 JP 1168685 9/1999
 JP 11242686 9/1999
 JP H11-242686 9/1999
 JP H11242686 9/1999
 JP 11219580 10/1999
 JP 11219580 A 10/1999
 JP H11-288558 10/1999
 JP 11317061 11/1999
 JP H11-317061 11/1999
 JP H11317061 11/1999
 JP 2000-66974 3/2000
 JP 200066974 3/2000
 JP 2001-128280 5/2001
 JP 2001128280 5/2001
 JP 10-356742 10/2002
 JP 3890692 12/2006
 JP 2007-207257 8/2007
 JP 2007207257 8/2007
 KR 10-1997-0016743 4/1997
 KR 1019970016743 4/1997
 KR 20-1997-0012254 5/1997
 KR 2019970012254 5/1997
 KR 0142256 3/1998
 KR 1999-024210 3/1999
 KR 1999-024210 A 3/1999
 KR 1999-0033726 5/1999
 KR 1999-0033726 A 5/1999
 KR 19990033393 5/1999
 KR 2019990022030 6/1999
 KR 2019990022030 U 6/1999
 KR 1999-0048723 7/1999

KR 1999-0055970 7/1999
 KR 19990048723 7/1999
 KR 19990055970 7/1999
 KR 1999-0073234 10/1999
 KR 100242563 10/1999
 KR 100242563 B1 10/1999
 KR 19990073234 10/1999
 KR 2000-0001465 1/2000
 KR 20000001465 1/2000
 KR 20000036680 7/2000
 KR 20010009302 2/2001
 KR 20010028354 4/2001
 KR 10-0356742 10/2002
 KR 10356742 10/2002
 KR 100356742 10/2002
 WO WO9418763 8/1994
 WO WO 96/04724 2/1996
 WO WO9604724 2/1996
 WO WO 96/07110 3/1996
 WO WO9607110 3/1996
 WO WO 97/13657 4/1997
 WO WO9713657 4/1997
 WO WO 98/19480 A2 5/1998
 WO WO 98/21672 5/1998
 WO WO 9819480 5/1998
 WO WO9821672 5/1998
 WO WO 98/19480 7/1998
 WO WO9819480 7/1998
 WO WO9833102 7/1998
 WO WO 98/47252 10/1998
 WO WO9847252 10/1998
 WO WO 99/06910 2/1999
 WO WO9906910 2/1999
 WO WO9918518 4/1999
 WO WO 99/23856 5/1999
 WO WO9923856 5/1999
 WO WO 99/28897 6/1999
 WO WO9928897 6/1999
 WO 9938566 7/1999
 WO WO 99/35009 7/1999
 WO WO9935009 7/1999
 WO 9939466 8/1999
 WO WO 99/43136 8/1999
 WO WO 99/43136 A2 8/1999
 WO WO9943136 8/1999
 WO WO 9943136 8/1999
 WO WO 99/12152 11/1999
 WO WO9912152 11/1999
 WO WO0007849 2/2000
 WO WO 00/38340 6/2000
 WO WO 00/38340 A2 6/2000
 WO WO0038340 6/2000
 WO WO 0038340 6/2000
 WO WO 00/54187 9/2000
 WO WO 00/54462 9/2000
 WO WO0054187 9/2000
 WO WO 00/60450 10/2000
 WO WO0060450 10/2000
 WO WO 00/70523 11/2000
 WO WO0070523 11/2000
 WO WO 00/79372 A1 12/2000
 WO WO0079372 12/2000

OTHER PUBLICATIONS

Kraar, L., "Knowledge Engineering," *Fortune*, Oct. 28, 1996, pp. 163-164.
 Heuchert, S., "Eyes Forward: An ergonomic solution to driver information overload," *Society of Automobile Engineering*, Sep. 1996, pp. 27-31.
 "OnStar" brochure by General Motors Corp., 1997.
 Sun Microsystems, Inc., "Why Jini Now?," Aug. 1, 1998, pp. 1-14.
 Clohessy, Kim, Object Technology, Inc., *Virtual Machine Technology: Managing Complexity and Providing Portability for Embedded Systems*, 2001, pp. 58-60.
Affinity Labs of Texas, LLC, Plaintiff, v. Apple, Inc., Defendant, C.A. No. 9:09-cv-00047-RC (Eastern District of Texas), Complaint (pp. 1-7), with Exhibits A, B and C, Filed Mar. 24, 2009, 76 pages in total.

(56)

References Cited

OTHER PUBLICATIONS

- Kumin, Daniel, Stereo Review, "Jukebox Heaven," Jan. 1999, pp. 64-71.
- Audio, "Anthem Five-Channel Amp," Jul./Aug. 1999, p. 15.
- Sony webpages in Japanese, "Portable Mini Disc Player MD Recorder," Jul. 21, 1996, pp. 1-5.
- Sony, "MD Walkman Operating Instructions—MZ-R4ST," 1996, pp. 1-64.
- Sony, "MD Walkman Operating Instructions—MZ-R5ST," 1997, pp. 1-79.
- Stereo Review, "New Products," Jun. 1998, 1 page.
- Sony webpages in Japanese, "Portable Mini Disc Player MD Recorder," Oct. 21, 1999, pp. 1-63.
- Sorcher, Jamie, Stereo Review, "New for the Road," May 1998, 2 pages.
- Sony, "MD Walkman Operating Instructions—MZ-R55," 1998, pp. 1-42.
- Whitters, John, The Advertiser, "Is the cassette doomed?" Jul. 16, 1998, pp. 1-2.
- Cole, George, Financial Times, "Listen with your eyes: A new music CD format supplies textual information," Oct. 23, 1997, pp. 1-2.
- Parker, Dana J., Standard Deviations, "CD-TEXTual Read all about it!," Oct. 1996, pp. 1-2.
- Mobile Electronics, "Down the Road," Jul. 2004, pp. 1-2.
- PR Newswire, "Alpine Announces Fall Release of Interface Adapter That Enables iPod Control and Playback From In-Vehicle Sound Systems," Jul. 7, 2004, 2 pages total.
- Borrowman, Greg, The Sydney Morning Herald, "Philips Releases Its Latest DVD," 1999, 2 pages total.
- Sony webpages in Japanese, "Portable MD Recorder," Oct. 1997, 5 pages total.
- Sony, "Walkman MZ-R50 Recorder," Oct. 1997 7 pages total.
- Sony, "MD Walkman MZ-R55," Oct. 10, 1998, 6 pages total.
- Von Herbert Pauler, Funkschau, "Kopierschutz für MP3-Audio," 1999, 9 pages total.
- Tessler, Franklin N., Macworld, "Mobile MAC, Highway Fidelity," Jun. 2004, pp. 1-3.
- Collins, Barry, The Sunday Times, "High-class high-tech—Buyer's guide," 2001, 2 pages.
- Familiar, Peter, Herald-Sun, "Clever Deck—CD and mini-disc combination," 1998, 1 page.
- Rio Car, "Car Toy Sole Retailer for Rio Car," May 28, 2001, 1 page.
- Gilroy, Amy, Twice, "Panasonic Ships First SD MP3," Dec. 4, 2000, 1 page.
- Twice, "PhatNoise Readies MP3," Nov. 5, 2001, 1 page.
- Savetz, Kevin, The Washington Post, "Putting Your MP3 Collection in Drive (Final Edition)," Aug. 10, 2001, pp. 1-3.
- Twice, "Study Sees Retail Opportunities for Mobile Multimedia," vol. 14, Issue 15, Jun. 28, 1999, pp. 1-2.
- Kempainen, Stephen, EDN Access for Design, by Design "In-car computing gets personal," Aug. 17, 1998, pp. 1-7.
- Japanese Website, mm mpmania.com, <http://mpmania.x-y.net/bbs/zboard.php?id=products&keyword=1998>, 1 page, Date Unknown.
- Japanese document regarding MP3, May 1999, 2 pages.
- Moeller, Mark, Computing Unplugged Magazine, "Software Review, New software products for the Auto PC," 1999-2009, Zatz Publishing, pp. 1-4.
- Moeller, Mark, Computing Unplugged Magazine, "Auto PC Power, A survey of resources for Auto PC owners," 1999-2009, Zatz Publishing, pp. 1-5.
- Moeller, Mark, Computing Unplugged Magazine, "Auto PC Power, A look at the first year of the Auto PC with Microsoft," 1999-2009, Zatz Publishing, pp. 1-5.
- Moeller, Mark, Computing Unplugged Magazine, "Auto PC Power, Next generation AutoPCs make a big debut at CES," 1999-2009, Zatz Publishing, pp. 1-6.
- Moeller, Mark, Computing Unplugged Magazine, "Programming Power, Getting started developing software for the Auto PC," 1999-2009, Zatz Publishing, pp. 1-5.
- Moeller, Mark, Computing Unplugged Magazine, "Behind the Scenes, The AutoPC: Vision vs. Reality," 1999-2009, Zatz Publishing, pp. 1-7.
- Moeller, Mark, Computing Unplugged Magazine, "Product Preview, A Survey of Auto PC 2.0 for software developers," 1999-2009, Zatz Publishing, pp. 1-7.
- Moeller, Mark, Computing Unplugged Magazine, "AutoPC Update, Auto PC/Windows CE for Automotive news bites," 1999-2009, Zatz Publishing, pp. 1-4.
- Streitz, Norbert A., et al., "Dolphin: Integrated Meeting Support Across Local and Remote Desktop Environments and LiveBoards," Integrated Publication and Information Systems Institute, 1994, pp. 345-358.
- Degen, Leo, et al., "Working with Audio: Integrating Personal Tape Recorders and Desktop Computers," May 3-7, 1992, pp. 413-418.
- Jun Gibee, H.S., "A Virtual Information Desk on the Internet," University of Ulsan, Sep. 1999, p. 265-268.
- Whittaker, Steve, et al., "TeleNotes: Managing Lightweight Interactions in the Desktop," Lotus Development Corporation, Jun. 1997, pp. 137-168.
- Crowder, R.M., et al., "Integration of Manufacturing Information Using Open Hypermedia," Computer in Industry, 1999, pp. 31-42.
- Bostrom, Tomas, et al., "Mobile Audio Distribution," Royal Institute of Technology, 1999, pp. 166-172.
- Poon, Alex, et al., Xerox Disclosure Journal, vol. 19, No. 2, "Gestural User Interface Technique for Controlling the Playback of Sequential Media," Mar./Apr. 1994, pp. 187-190.
- Roy, Deb Kumar, "NewsComm: A Hand-Held Device for Interactive Access to Structured Audio," Massachusetts Institute of Technology, Jun. 1995, pp. 1-12.
- Bellotti, Victoria, et al., "Walking Away from the Desktop Computer: Distributed Collaboration and Mobility in a Product Design Team," 1996, pp. 209-218.
- Obeyesekere, Upul, et al., "The Visual Interactive Desktop Laboratory," Jan.-Mar. 1997, pp. 63-71.
- Poon, Sui-Meng, et al., "Integration of Value-Added Audio Playback Capacity Into Computer Network," Nanyang Technological University, 1995, pp. 632-636.
- Paksoy, Erdal, et al., "A variable-rate celp coder for fast remote voicemail retrieval using a notebook computer," DSPS R&D Center, Texas Instruments, 1997, pp. 119-124.
- Davis, Jeffrey A., "Use of Personal Computers in Satellite Command and Control Systems," Raytheon Systems Company, Oct. 24, 1999, pp. 283-291.
- Chan, A., et al., "The PEP-II Project-Wide Database," Stanford University, 1996, pp. 840-842.
- Bharat, Krishna, et al., "Migratory Applications," Springer Berlin, vol. 1222, 1997, pp. 1-21.
- Microsoft, "Getting Started Microsoft. Windows. 98" Second Edition, 1998, pp. 1-138.
- Greenberg, Saul, "PDAs and Shared Public Displays: Making Personal Information Public, and Public Information Personal," University of Calgary, Mar. 1999, pp. 1-11.
- Microsoft, "Introducing Microsoft Windows 95—Certificate of Authenticity," 1995, pp. 1-117.
- Davis, Richard C., et al., "A Framework for Sharing Handwritten Notes," 1998, pp. 119-120.
- Bharat, Krishna A., et al., "Migratory Applications," UIST '95, Nov. 14-17, 1995, pp. 133-142.
- Myers, Brad A., "Collaboration Using Multiple PDAs Connected to a PC," Carnegie Mellon University, 1998, pp. 385-294.
- Davis, Richard C., et al., "NotePals: Lightweight Note Sharing by the Group, for the Group," May 15-20, 1999, pp. 338-345.
- Rekimoto, Jun, et al., "Augmented Surfaces: A Spatially Continuous Work Space for Hybrid Computing Environments," May 15-20, 1999, pp. 378-385.
- Olsen, Jr., Dan R., "Interacting with Chaos," Sep. and Oct. 1999, pp. 42-54.
- Robertson, Scott, et al., "Dual Device User Interface Design: PDAs and Interactive Television," Apr. 13-18, 1996, pp. 79-86.
- Symantec Corporation, "pcAnywhere32 User's Guide," 1993-1997, p. 1-216.

(56)

References Cited**OTHER PUBLICATIONS**

- Bharat, Krishna, et al., Migratory Applications, "Mobile Object Systems Towards the Programmable Internet," Springer Berlin/Heidelberg, vol. 1222/11997, 1997, pp. 1-134.
- Diamond Multimedia Systems, Inc., "Rio PMP300, User's Guide," 1998, pp. 1-27.
- Sony, "Portable MiniDisc Recorder, Operating Instructions, MZ-R55," 1998, pp. 1-42.
- Streitz, Norbert A., et al., "i-Land: An Interactive Landscape for Creativity and Innovation," Proceedings of the ACM Conference on Human Factors in Computing Systems, May 15-20, 1999, pp. 120-127.
- IBM, "WordPad z50 Cradle Option—User's Guide," 1990, pp. 1-18.
- IBM Mobile Systems, "WorkPad z50 Mobile Companion (2608-1Ax), Hardware Maintenance Manual," Mar. 1999, pp. 1-77.
- Jost, Kevin, Automotive Engineering International, "The car as a mobile-media platform," May 1998, pp. 49-53.
- Microsoft Corporation, "Windows CE 2.1 Technical Articles, Developing Applications for an Auto PC," Jun. 1999, pp. 1-13.
- Infogation Corporation, "InfoGation Corp. Introduces Software Applications for Next-Generation Smart Car Systems," Jan. 8, 1998, pp. 1-2.
- Business Wire, "ORA Electronics Announces USB-Compatible TelCar Mark VII Begins Shipping First Quarter of 1999," Jan. 6, 1999, pp. 1-2.
- ORA USA, "ORA Electronics Patents Telcar Cellular Telephone Interface," Jul. 6, 1998, pp. 1-2.
- Hewlett Packard, "HP Jornada 430/430se Palm-Size PC, User's Guide," Edition 1, 1999, pp. 1-151.
- NEC, "NEC MobilePro 750C, User's Guide," 1998, pp. 1-83.
- MPMan, "User's Guide, The Portable MP 3player using the flash memory and SmartMedia card," 1997, pp. 1-35.
- MPMan, "User's Guide, The portable MP3 player using the flash memory with variety features including the voice recording, phone/memo browsing, etc.," 1997, pp. 1-47.
- Shimpi, Anand Lal, Empeg, Ltd., "MP3 meets Car Audio: Empeg Mark II in-dash Car MP3 Player," Sep. 18, 2000, pp. 1-17.
- Clarke, Peter, EE Times, "Engineers drive craze for MP3 audio players," Feb. 5, 1999, pp. 1-4.
- Diamond Multimedia Systems, Inc., "Rio PMP300 User's Guide," 1998, pp. 1-27.
- Buckley, Stephen J., et al., "The Car as a Peripheral, Adapting a Portable Computer to a Vehicle Intranet," SAE Technical Paper Series, 98C030, Oct. 19-21, 1998, pp. 1-14.
- "The MP3 Mobile," Apr. 8, 1998, pp. 1-13.
- 12-Volt Business & Technology Solutions, AutoMedia, "How the Intelligent Data Bus will impact the way you do business," Nov. 1998, pp. 1-2.
- Press Release, "Creative Labs Launches Nomad Portable MP3 Players," Apr. 15, 1999, pp. 1-5.
- BMW, "Betriebsanleitung Bordmonitor mit Navigation und TV," 1995, pp. 1-82.
- BMW, "Owner's Manual, On-board monitor with navigation system," 1996, pp. 1-81.
- Transperfect/Translations, "True and accurate translation of the 1995 BMW Manual, from German into English," Aug. 16, 2005, pp. 1-80.
- Sodeikat, Heinz, "Euro-Scout is facing the German 1994 Market," 1994, pp. 551-556.
- BMW, "The BMW On-Board Navigation System—Technology Takes a Remarkable Turn," 2005, pp. 1-9.
- Microsoft, "Getting Started, Microsoft Windows 98, for distribution with a new PC only," 1998, pp. 1-145.
- PR Newswire, "Alpine Announces Fall Release of Interface Adapter That Enables iPod Control and Playback from In-Vehicle Sound Systems," Jul. 7, 2004, pp. 1-2.
- Park, Ha-Young, The Customer Times, "Portable Computer Music, MP3 File and MP3 Player rise as the Next Generation Audio Format," May 1999, pp. 1-2.
- "MP3 Players Introduced in the Korean IT Magazines," 1998-1999, pp. 1-15.
- PR Newswire Association, Inc., "Delphi's Communiport(R) Technology for Tomorrow, Today Demonstrated at Frankfurt Auto Show," Sep. 15, 1999, pp. 1-8.
- Crain Communications, Inc., "Products," Agilent Technologies Press Release, Feb. 21, 2000, pp. 1-6.
- The Washington Times, LLC, John Hanan, Dallas Morning News, "Cars add computer, audiovisual gear," Jan. 14, 2000, pp. 1-3.
- Request for Ex Parte Reexamination Under 35 U.S.C. .sctn.302 for U.S. Pat. No. 7,324,833, Filed on Nov. 7, 2008 (pp. 1-21).
- Menta, Richard, "1200 Song MP3 Portable is a Milestone Player," Jan. 11, 2000, pp. 1-3.
- Lind, R., et al., "The Network Vehicle—A Glimpse into the Future of Mobile Multi-Media," Sep. 1999, pp. 27-32.
- Yamaha Corporation, "QY Data Filer—Owner's Manual," pp. 1-250, 1997.
- Yamaha Corporation, "Yamaha Music Sequencer, QY70, Owner's Manual," Chapters 1-11, 1997.
- "Universal Serial Bus Specification," Revision 1.1, Sep. 23, 1998, pp. ii-106.
- Multi Technology Equipment, "Neo Car Jukebox, Installation and Instruction Manual," pp. 1-30, Date Unknown.
- Microsoft, "Palm PC User's Guide," Microsoft Windows CE, pp. 1-39, Date Unknown.
- Palm PC User's Guide, "Chapter 6, Information Backup and Exchange," pp. 69-148, Date Unknown.
- Cover Sheet, www.mpm.com, 1 page, Date Unknown.
- Smart Media Card Slot Diagram, 1 page, Date Unknown.
- MP Man F20 Logo, 1 page, Date Unknown.
- Smart Media card diagram and install instructions, pp. 1-4, Date Unknown.
- Rio Car Dot Org Geek Guide, "empeg car Mk. 1," Feb. 21, pp. 1-4, Date Unknown.
- Hugo Fiennes, Rio Car Dot Org Geek Guide, "MP3 Mobile," Feb. 21, pp. 1-4, Date Unknown.
- Rio Car Dot Org, Frequently Asked Questions, pp. 1-16, Date Unknown.
- Pictures of car navigation systems in a car dashboard, pp. 1-11, Date Unknown.
- MPMan, "MP-F20, User's Guide, Portable MP3 player using the flash memory and a Memory card," pp. 1-16, Date Unknown.
- Alpine, "Interface Adapter for iPod KCA-420i—Owner's Manual," 44 pages total, Date Unknown.
- Amy Gilroy Mobile Electronics, "Apple's iPod Seen Transforming Car Audio Business," 1 page, Jun. 7, 2004.
- JVC, "Audio/Video Control Receiver, RX-668VBK, Instructions," pp. 1-43, Date Unknown.
- English Summary, "A device for remotely controlling a car device for playing mp3 files is disclosed . . .", 1 page, Date Unknown.
- JVC, "MD-CD Combination Deck, XU-301BK, Instructions," pp. 1-59, Date Unknown.
- Amy Gilroy, Mobile Electronics, "OEM Integrators Embrace iPod's Success," 1 page, Aug. 23, 2004.
- JVC, "Portable Minidisc Recorder, XM-R700SL, Instructions," pp. 1-24, Date Unknown.
- Japanese Webpage, www.kcalgo.kr/jsp/main.jsp, 1 page, Date Unknown.
- Japanese Webpage, www.kca.go.kr—Brochure Free—Microsoft Internet Explorer, 1 page, Date Unknown.
- MPMan, "The portable MP3 player using the Flash Memory and Memory card—MP-F20," in Japanese, pp. 1-34, Date Unknown.
- Japanese Website, mm mpm.com, http://mpmania, x-y.net/bbs/view.php?id=products&page=1&sn1=&divpage, 1 page, Date Unknown.
- www.mpm.com, "MP-F30, User's Guide," pp. 2-47, Date Unknown.
- RIO500, Getting Started Guide for Windows 98 and Macintosh OS 8.6, pp. 1-2, 1999.
- Asim Smailagic, et al., "MoCCA: A Mobile Communication and Computing Architecture," Institute for Complex Engineered Systems, pp. 1-8, Oct. 1999.

(56)

References Cited**OTHER PUBLICATIONS**

- Niki Davis, "Remote Teaching Via ISDN2 and Desktop Conferencing," Exeter University School of Education, pp. 1-3, Feb. 25, 1993.
- Empeg Car, "MP3 in your dash," Digital Audio Player User Guide, pp. 1-50, Date Unknown.
- Naohiko Kohtake, et al., "InfoStick: an interaction device for Inter-Appliance Computing," Keio University, pp. 1-15, 1999.
- Hewlett Packard, User's Guide, HP Jornada 420, Palm-Size PC, pp. 1-75, Date Unknown.
- Norbert A. Streitz, et al., "Roomware for Cooperative Buildings: Integrated Design of Architectural Spaces and Information Spaces," pp. 1-20, 1998.
- Direct Cable Connection screen shot, "B1U6U4," 10 pages total, Date Unknown.
- Direct Cable Connection screen shot, 10 pages total, Date Unknown.
- Samppa Ruohutla, "Wireless Communications in the Information Society" Master's Thesis Hekslinki University of Technology, published Aug. 16, 1999, pp. 1-117.
- Frank Ahrens, "Internet Stations Give Listeners a New Way to Tune In," Washington Post, published Jan. 21, 1999, pp. 1-8.
- Henning Schulzrinne, "Integrated Internet Appliances: More than Just a Phone," Internet Real-Time (IRT) Laboratory, Columbia University, published Feb. 15, 1999, pp. 1-12.
- Gerhard Stoll, "Streaming-Audio@Internet: Perspectives for the Broadcasters," Proceedings of the AES 17th Int'l Conference, Florence, Italy, published Sep. 1999, pp. 1-15.
- IBM Wireless Modem for Cellular/CDPD product and documentation User Manual, Document No. SC30-3692-00, 1st edition, Aug. 1995, (IBM000129-IBM000326), pp. 1-198.
- IBM Wireless Modem for Cellular/CDPD product and documentation User Manual, Document No. GX27-4001-02, 3rd edition, Sep. 1996, (IBM000014-IBM000128), pp. 1-115.
- IBM Wireless Modem for Cellular/CDPD product and documentation Hardware Announcement No. 195-084, IBM Wireless Modem for Cellular/CDPD, Mar. 14, 1995, (IBM000001-IBM000006), pp. 1-11.
- IBM Wireless Modem for Cellular/CDPD product and documentation Hardware Announcement 195-213, Jun. 20, 1995, (IBM000007-IBM000008), pp. 1-2.
- IBM Wireless Modem for Cellular/CDPD product and documentation Hardware Announcement 195-309, Oct. 9, 1995, (IBM000009-IBM000011), pp. 1-3.
- IBM Hardware Withdrawal Announcement 997-019, Jan. 21, 1997, (IBM000012-IBM000013), pp. 1-2.
- IBM Hardware Maintenance Manual ThinkPad 390/i Series, Nov. 1998, pp. 1-92.
- IBM Hardware Maintenance Manual ThinkPad 600X series, Jan. 2000, pp. 1-82.
- IBM Hardware Maintenance Manual vol. 2: ThinkPad Computers, Apr. 1995, pp. 1-508.
- IBM Hardware Maintenance Manual vol. 3: ThinkPad Computers, Mar. 1997, pp. 1-98.
- IBM Hardware Maintenance Manual vol. 4: ThinkPad Computers, Sep. 1997, pp. 1-122.
- IBM Hardware Maintenance Manual ThinkPad i Series 1400 series, Aug. 1999, pp. 1-111.
- IBM Personal Computer 300/700 Series IntelliStation Hardware Maintenance Manual, Jun. 1998, pp. 1-77.
- IBM Personal Systems Reference IBM ThinkPad Notebooks 1992 to 2001, Jan. 2001, pp. 1-87.
- IBM Technical Information Manual PC 300 PL series, 1998, pp. 1-57.
- IBM ThinkPad 240 Hardware Maintenance Manual, Oct. 1999, pp. 1-67.
- IBM ThinkPad 240 series compatibility spreadsheet, pp. 1-4.
- IBM ThinkPad 240 series User's Guide, Jun. 1999, pp. 1-121.
- IBM ThinkPad 240X Hardware Maintenance Manual, May 2000, pp. 1-84.
- IBM ThinkPad 365X/365XD series User's Guide, Apr. 1996, pp. 1-308.
- IBM ThinkPad 380 or 380D series User's Guide, Mar. 1997, pp. 1-144.
- IBM ThinkPad 380XD/385XD series User's Guide, Nov. 1997, pp. 1-178.
- IBM ThinkPad 390 series User's Guide, Nov. 1998, pp. 1-126.
- IBM ThinkPad 560 series User's Guide, May 1996, pp. 1-263.
- IBM ThinkPad 570 series User's Guide, Jan. 1999, pp. 1-135.
- IBM ThinkPad 600 Online Book manual, 1999, pp. 1-102.
- IBM ThinkPad 600 series compatibility spreadsheet, Jan. 25, 1999, pp. 1-10.
- IBM ThinkPad 600E Online Book manual, 1998, pp. 1-119.
- IBM ThinkPad 755 Enhanced Technical Information, Tips, and Techniques v3.4, Dec. 1996, pp. 1-21.
- IBM ThinkPad 770 series User's Guide, Sep. 1997, pp. 1-119.
- IBM ThinkPad 770X series User's Guide, Aug. 1998, pp. 1-137.
- Broadcast.com website, 1998-99, pp. 1-10.
- ESPN.com website, 1999, pp. 1-5.
- "AOL's Spinner Launches Music Download Service," Time-Warner Press Release, Dec. 1, 1999, p. 1.
- Beth Krigel, "AOL buys Spinner, Nullsoft for \$400 million," CNET News Release, Jun. 1, 1999, pp. 1-7.
- Kerbango Internet Radio player and web archive documentation, Mar. 2, 2000, pp. 1-3.
- Slim Devices SliMP3 Ethernet MP3 player and web archive documentation, 2000-2001, pp. 1-4.
- SHOUTcast Internet streaming service, website, and web archive documentation, Apr. 1999, pp. 1-3.
- Winamp digital audio player and Winamp.com web archive documentation, Jan. 1999, pp. 1-11.
- Screenshots related to MusicMatch Software ver. 4.0, copyright 1999-2000, pp. 1-11.
- Screenshots related to MusicMatch Software ver. 4.1, copyright 1999-2000, pp. 1-11.
- Screenshots related to MusicMatch Software ver. 4.2, copyright 1999-2000, pp. 1-13.
- Screenshots related to MusicMatch Software ver. 4.3, copyright 1999-2000, pp. 1-13.
- Screenshots related to MusicMatch Software ver. 4.4, copyright 1999-2000, pp. 1-14.
- "MusicMatch First Jukebox Software to Integrate Internet Radio Tuner, Offering the Most Powerful Music Playback and Streaming Capabilities Available," Jan. 24, 2000, pp. 1-2.
- MusicMatch Press Release, "MusicMatch Breaks the Sound Quality Barrier with Release of MusicMatch Jukebox 5.0," Mar. 6, 2000, pp. 1-3.
- MusicMatch Press Release, "Play Pack Introduces Users to Digital Entertainment; There's Never Been a Better Time to Upgrade," Nov. 1, 2000, pp. 1-3.
- MusicMatch Press Release, "MusicMatch Unveils Free MusicMatch Jukebox 4.0—Most Powerful Mp3 Software Available on the Internet," Jun. 10, 1999, pp. 1-2.
- MusicMatch Press Release, "MusicMatch Jukebox First Digital Audio Software to Easily Integrate Playback of Locally Stored and Streamed MP3 Music, Plus Windows Media Audio Recording and Playback," Aug. 12, 1999, pp. 1-3.
- MusicMatch Press Release, "Dell Launches New Consumer Advertising Campaign Develops New Music PC Combo," Sep. 22, 1999, pp. 1-3.
- MusicMatch Press Release, "MP3.com and MusicMatch Offer Exclusive Download of Custom MusicMatch Jukebox," Sep. 29, 1999, pp. 1-2.
- MusicMatch Press Release, "MusicMatch Delivers Windows Media Audio Recording and Playback with Next-Generation Creative NOMAD II," Oct. 6, 1999, pp. 1-2.
- MusicMatch Press Release, "MusicMatch Partners with Emusic.com and Epitonic.com and Rollingstone.com to Bring Digital Music to the Masses," Oct. 14, 1999, pp. 1-3.
- MusicMatch Press Release, "RCA Lyra Enhanced to Support MusicMatch Jukebox, Windows Media, and USB Connections," Dec. 8, 1999, pp. 1-2.

(56)

References Cited**OTHER PUBLICATIONS**

RealNetworks Press Release, "Discover Networks Online and RealNetworks Announce Agreements," 1998, pp. 1-2.

RealNetworks Press Release, "RealNetworks Ships Final Release of RealSystem G2, Next Generation Media Delivery System," Nov. 23, 1998, pp. 1-3.

RealNetworks Press Release, "Merrill Lynch Selects RealNetworks Streaming Media Solutions," Nov. 30, 1998, pp. 1-2.

RealNetworks Press Release, "RealNetworks Announces RealSystem G2, The Next Generation Streaming Media Delivery System," Apr. 28, 1998, pp. 1-3.

RealNetworks Press Release, "Leading Broadcast and Entertainment Companies Support RealSystem G2," Apr. 28, 1998, pp. 1-3.

RealNetworks Press Release, "RealNetworks Announces RealSystem G2 for Corporate Intranets," Apr. 28, 1998, pp. 1-3.

RealNetworks Press Release, "RealNetworks Releases RealSystem G2," Jul. 13, 1998, pp. 1-3.

RealNetworks Press Release, "More Than 50 Leading Media Companies Provide Programming for RealChannels in RealPlayer G2," Jul. 13, 1998, pp. 1-3.

RealNetworks Press Release, "Sony Music and RealNetworks Launch Video Music Network on the Internet with RealPlayer G2," Jul. 15, 1998, pp. 1-2.

RealNetworks Press Release, "Record-Breaking Number of Consumers Download RealNetworks' RealPlayer," Aug. 6, 1998, p. 1.

RealNetworks Press Release, "RealNetworks Reaches Two Million Viewership Milestone with Broadcast of Clinton Testimony," Sep. 22, 1998, pp. 1-2.

RealNetworks Press Release, "RealNetworks Ships Full Beta Release of RealSystem G2 Including Intel Technology," Sep. 28, 1998, pp. 1-2.

RealNetworks Press Release, "RealNetworks' RealPlayer Software to be Distributed on AOL 4.0 CD-ROMS, Giving AOL Users Instant Access to RealAudio and RealVideo Content," Sep. 28, 1998, pp. 1-2.

RealNetworks Press Release, "RealNetworks Announces Widespread Adoption of RealSystem G2," Sep. 28, 1998, pp. 1-3.

RealNetworks Press Release, "RealNetworks Announces the First Ever Streaming Media Partner Pavilion," Oct. 7, 1998, pp. 1-2.

RealNetworks Press Release, "Lotus & RealNetworks First to Integrate Streaming Audio and Video with Messaging and Collaboration Software for Millions of Lotus Customers," Oct. 12, 1998, pp. 1-3.

RealNetworks Press Release, "Netscape and RealNetworks Sign Strategic Agreement to Distribute RealPlayer Via Netscape Communicator and Netscape Netcenter Portal Site," Oct. 19, 1998, pp. 1-3.

RealNetworks Press Release, "Sony Music Online Unveils the Beta Release of the Jukebox, The Internet's First Pay-Per-Listen Application," Nov. 2, 1998, pp. 1-2.

RealNetworks Press Release, "Excite and RealNetworks Team to Create First Integrated Streaming Media Search System," Nov. 23, 1998, pp. 1-2.

RealNetworks Press Release, "QSound Labs and RealNetworks Integrate Leading Edge 3D Audio Technology into Next Generation RealPlayer G2," Nov. 23, 1998, pp. 1-2.

RealNetworks Press Release, "Independent Lab and Eight Industry Product Reviews Conclude RealSystem G2 Leading Platform for Streaming Media," Feb. 15, 1999, pp. 1-3.

RealNetworks Press Release, "RealNetworks Launches International Versions of RealPlayer G2," Feb. 15, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks Introduces RealSystem G2 Optimized for Intel Pentium III Processor-Based Systemsline," Feb. 17, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks Announces Support for Microsoft Internet Explorer 5," Mar. 18, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks Announces Update of RealPlayer G2 Including Integration of the AOL Instant Messenger Service," Mar. 18, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks' RealPlayer G2 Included in Intel WebOutfitters Service," Mar. 26, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks Packs Value into Third Annual Conference & Exhibition on Streaming Medialine," Apr. 26, 1999, pp. 1-3.

RealNetworks Press Release, "RealNetworks' RealJukebox Debuts with Music From More Than 60 Artists Including Multi-Platinum Recording Artist Public Enemy," May 3, 1999, pp. 1-2.

RealNetworks Press Release, "AT&T's A2B Music Technology Provides Security for RealNetworks' RealSystem MP Digital Music Platform," May 3, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks Integrates CDDDB's Disc Recognition Service into RealJukebox," May 3, 1999, pp. 1-2.

RealNetworks Press Release, "Liquid Audio and RealNetworks Team to Add Liquid Audio's Music E-Commerce Capabilities to RealNetworks' RealSystem MP," May 3, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks Launches RealJukebox, Turning Internet PC's Into the Best Way to Experience Music," May 3, 1999, pp. 1-3.

RealNetworks Press Release, "RealNetworks Introduces RealSystem MP, The First Complete Digital Music Management System," May 3, 1999, pp. 1-2.

RealNetworks Press Release, "Thomson and RealNetworks Team to Provide Consumers with Internet Digital Music Product and Software Solutions," May 3, 1999, pp. 1-3.

RealNetworks Press Release, "RealNetworks Ships RealPlayer G2 for Macintosh and RealPlayer G2 Update 2 for Windows," May 5, 1999, pp. 1-3.

RealNetworks Press Release, "RealNetworks Announces a Rich Media Advertising Application for RealSystem G2," May 5, 1999, pp. 1-3.

RealNetworks Press Release, "RealNetworks Teams with Intel to Deliver First Streaming 3-D Solution for Fonts & Effects," May 5, 1999, pp. 1-2.

RealNetworks Press Release, "Polycom and RealNetworks Announce New Polycom Streamstation, Enabling Videoconferences to be Streamed Over the Web in Real-Time and On-Demand," May 10, 1999, pp. 1-3.

RealNetworks Press Release, "RealNetworks' RealJukebox Reaches One Million Downloads in Ten Days," May 12, 1999, pp. 1-2.

RealNetworks Press Release, "NBC's Snap.com and RealNetworks Team to Connect Consumers to Broadest Range of Rich Media Programming on the Internet," May 17, 1999, pp. 1-3.

RealNetworks Press Release, "Liberate Technologies to Integrate RealNetworks RealPlayer G2 into Information Appliance Software Platform as Preferred Broadband Media Technology," Jun. 24, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks Introduces RealSlideshow Enabling a New Market for Broadcasting Digital Pictures Over the Internet," Jun. 29, 1999, pp. 1-3.

RealNetworks Press Release, "Corbis Joins Forces with RealNetworks to Provide Digital Pictures to RealSlideshow Users," Jun. 29, 1999, pp. 1-3.

RealNetworks Press Release, "WebTV Networks and RealNetworks Agree to Provide RealAudio G2 Support for WebTV Networks Subscribers," Jul. 1, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks' RealPlayer G2 Ships on IBM Consumer PC's," Jul. 15, 1999, pp. 1-2.

RealNetworks Press Release, "More Than 150 Downloadable Songs from Digital Club Festival Performers to be Available Exclusively to RealJukebox Users," Jul. 19, 1999, pp. 1-2.

RealNetworks Press Release, "Gateway Ships RealNetworks' RealPlayer G2 with Gateway Consumer PCs," Jul. 19, 1999, pp. 1-2.

RealNetworks Press Release, "RealNetworks Introduces RealJukebox Plus, The First Complete Digital Music System with CD-Quality Recording and Playback—Philips and Real Networks Team Up to Provide Consumers With Internet Digital Music Solutions," Aug. 9, 1999, pp. 1-3.

RealNetworks Press Release, "RealNetworks Introduces RealJukebox Plus, The First Complete Digital Music System with

(56)

References Cited**OTHER PUBLICATIONS**

CD-Quality Recording and Playback—New, Free RealJukebox Beta 2 and RealJukebox Plus,” Aug. 9, 1999, pp. 1-3.

RealNetworks Press Release, “RealNetworks Introduces RealJukebox Plus, The First Complete Digital Music System with CD-Quality Recording and Playback—Real Networks’ RealJukebox Plus and RealJukebox First to Integrate Seamless Support for Multiple Portable Digital Music Players,” Aug. 9, 1999, pp. 1-3.

RealNetworks Press Release, “RealNetworks Introduces RealJukebox Plus, The First Complete Digital Music System with CD-Quality Recording and Playback—After Just Three Months, RealJukebox is the Number One Digital Music System, According to Media Metrix,” Aug. 9, 1999, pp. 1-3.

RealNetworks Press Release, “RealNetworks Introduces RealJukebox Plus, The First Complete Digital Music System with CD-Quality Recording and Playback—Popular Artists Jewel, Edwin McCain and Ol’ Dirty Bastard, Among Those Featured in Series of Promotions Available Exclusively through RealJukebox and RealJukebox Plus and TWEC.com,” Aug. 9, 1999, pp. 1-3.

RealNetworks Press Release, “Checkout.com and RealNetworks Enter Strategic Alliance to Provide RealJukebox Users Direct Access to Music Content and Commerce,” Sep. 23, 1999, pp. 1-2.

RealNetworks Press Release, “RealNetworks and Sony Music Entertainment’s Epic Records Preview New Rage Against the Machine Album,” Sep. 23, 1999, pp. 1-2.

RealNetworks Press Release, “RealNetworks Ships Gold Release of RealJukebox and RealJukebox Plus, First Complete Digital Music Solution,” Sep. 23, 1999, pp. 1-3.

RealNetworks Press Release, “MP3.com and RealNetworks Team Up to Provide New Music to RealJukebox Users,” Sep. 24, 1999, pp. 1-2.

RealNetworks Press Release, “Nine Inch Nails First to Download Full-Length Music Video Direct to Fans Using RealNetworks’ New Video Support in RealJukebox Gold,” Sep. 24, 1999, pp. 1-2.

RealNetworks Press Release, “RealNetworks Delivers Sam Donaldson @ Abcnews.com, First-Ever Regularly Scheduled, Internet-Only, Live Program Offered by a Broadcast Network,” Oct. 12, 1999, pp. 1-2.

RealNetworks Press Release, “RealNetworks Issues Patch to Address Privacy Concerns of Users,” Nov. 1, 1999, p. 1.

RealNetworks Press Release, “RealNetworks Launches the Real.com Network,” Nov. 8, 1999, pp. 1-3.

RealNetworks Press Release, “Leading Broadcast Infrastructure Providers Support the Real.Com Network,” Nov. 8, 1999, pp. 1-2.

RealNetworks Press Release, “RealNetworks Announces Significant Advances in RealSystem G2,” Nov. 8, 1999, pp. 1-3.

RealNetworks Press Release, “RealNetworks Publishes Consumer Software Privacy Statement,” Nov. 8, 1999, pp. 1-2.

RealNetworks Press Release, “RealNetworks Launches RealPlayer 7 with Improved Performance and Media Navigation,” Nov. 8, 1999, pp. 1-4.

RealNetworks Press Release, “RealNetworks Launches Real.Com Take5, First Daily Programming Service Providing Consumers With Instant Access to Best Audio and Video on the Internet,” Nov. 8, 1999, pp. 1-3.

RealNetworks Press Release, “RealPlayer 7 Achieves Unprecedented Rate of Consumer Adoption, Reaches Three Million Downloads in First Week,” Nov. 15, 1999, pp. 1-2.

RealNetworks Press Release, “Consumer Research Shows Internet Users Prefer RealNetworks Audio,” Nov. 18, 1999, pp. 1-2.

RealNetworks Press Release, “BMG Entertainment to Make Full-Length Albums from Major Artists Available in RealAudio,” Dec. 6, 1999, pp. 1-2.

RealNetworks Press Release, “RealNetworks and WebGlide Demonstrate ‘Utopia,’ A Breakthrough Product That Streams High-Quality Computer Generated Video,” Dec. 9, 1999, pp. 1-3.

RealNetworks Press Release, RealJukebox Scores Top Honors as One of 1999’s Best Products, Dec. 14, 1999, pp. 1-3.

RealNetworks Press Release, “RealNetworks Announces Strategic Alliance with 800.Com, the Leading Online Consumer Electronics Retailer,” Sep. 23, 1999, pp. 1-2.

RealNetworks Press Release, “RealNetworks Ships Gold Releases of RealPlayer 7 Basic and RealPlayer 7 Plus,” Jan. 5, 2000, pp. 1-2.

RealNetworks Press Release, “RealNetworks Releases RealJukebox Update 1 with Integrated Audio CD Creation Capabilities from Adaptec, Support for Iomega Storage Devices,” Jan. 7, 2000, pp. 1-2.

RealNetworks Press Release, “RealNetworks Announces RealSystem G2 on Windows 2000,” Feb. 17, 2000, pp. 1-2.

RealNetworks Press Release, “RealNetworks Joins Forces with Leading Music Retailers to Expand Digital Music Distribution Market,” Feb. 29, 2000, pp. 1-2.

RealNetworks Press Release, “RealNetworks Ships RealPlayer Updates for Windows, Macintosh and Unix,” Mar. 13, 2000, pp. 1-2.

RealNetworks Press Release, “RealNetworks’ RealJukebox Becomes First Universal Digital Music System,” Mar. 15, 2000, pp. 1-2.

RealNetworks Press Release, “RealNetworks Announces Nine International Editions of Industry-Leading RealPlayer 7 and RealJukebox,” Mar. 27, 2000, pp. 1-2.

RealNetworks Press Release, “RealJukebox Hits Historic Milestone for Internet Digital Music,” Mar. 27, 2000, pp. 1-2.

United States Patent and Trademark Office, “*Samsung Electronics Co., Ltd, Samsung Electronics America, Inc., HTC Corp., and HTC America, Inc.*, Petitioner, v. *Affinity Labs of Texas, LLC*, Patent Owner,” Final Written Decision, 35 U.S.C. § 318(a) and 37 C.F.R. § 42.73, Case IPR2014-00209 U.S. Pat. No. 7,953,390 B2, May 13, 2015, 20 pages.

U.S. Patent and Trademark Office, “Examiner’s Answer,” Mailed Sep. 10, 2014 in Control Nos. 90/010,333 and 95/001,264, 19 pages.

U.S. Patent and Trademark Office, “Examiner’s Answer,” Mailed Sep. 3, 2014 in Control No. 95/001,223, 12 pages.

U.S. Patent and Trademark Office, “Board Decision,” Mailed Jun. 30, 2014 in Control No. 95/001,281, 30 pages.

Affinity Labs of Texas, LLC, Plaintiff, v. *DICE Electronics, LLC, et al.*, Defendants, C.A. No. 9:08-cv-00163 (Eastern District of Texas), Defendants’ Motion to Stay Litigation Pending Reexamination, Filed Jan. 12, 2009, pp. 1-15.

Declaration of John M. Jackson in Support of Defendants’ Motion to Stay Litigation Pending Reexamination, Filed on Jan. 12, 2009, pp. 1-2.

Exhibit B to Defendants’ Motion to Stay Litigation Pending Reexamination (Ex Parte Reexamination (Ex Parte Reexamination Communication Transmittal Form and Order Granting Request for Ex Parte Reexamination, Issued by the U.S. Patent and Trademark Office on Dec. 12, 2008, pp. 1-16).

Exhibit C to Defendants’ Motion to Stay Litigation Pending Reexamination (Affinity Labs of Texas website, <http://www.aflabstx.com/>, printed on Dec. 29, 2008, Filed on Jan. 12, 4 pages total).

Exhibit D to Defendants’ Motion to Stay Litigation Pending Reexamination (United States Patent and Trademark Office, Ex Parte Reexamination Filing Data, Sep. 30, 2008, pp. 1-2).

Affinity Labs of Texas, LLC, Plaintiff, v. *BMW North America, LLC, et al.*, Civil Action No. 9:08-cv-00164 RC (Defendants’ Joint Motion to Stay Litigation Pending Reexamination, Filed Jan. 13, 2009, pp. 1-8).

Proposed Order on Defendants’ Motion to Stay Litigation Pending Reexamination, Filed on Jan. 13, 2009, 1 page total.

Affinity Labs of Texas, LLC, Plaintiff, v. *BMW North America, LLC, et al.*, Defendants, Civil Action No. 9:08-cv-164, Order Denying Defendants’ Motion to Stay, Filed Feb. 20, 2009, pp. 1-9.

L. Kraar, “Knowledge Engineering,” *Fortune*, Oct. 28, 1996, pp. 163-164.

S. Heuchert, “Eyes Forward: An ergonomic solution to driver information overload,” *Society of Automobile Engineering*, Sep. 1996, pp. 27-31.

“OnStar” brochure by General Motors Corporation, 1997.

Sun Microsystems, Inc., “What is Jini?”, Summary, Date Unknown.

(56)

References Cited**OTHER PUBLICATIONS**

Kim Clohessy, Object Technology, Inc., Virtual Machine Technology: Managing Complexity and Providing Portability for Embedded Systems, 2001, pp. 58-60.

Mobile GT, "The Architecture for Driver Information Systems," Date Unknown.

Affinity Labs of Texas, LLC, Plaintiff, v. *BMW North America, LLC*, et al., Defendants, C.A. No. 9:08-cv-00164-RC, Affinity's Infringement Contentions, with Infringement Chart Exhibits A-G.

Affinity Labs of Texas, LLC, Plaintiff, v. *Alpine Electronics of America, Inc.*, et al., Defendants, C.A. No. 9:08-cv-00171-RC, Affinity's Infringement Contentions, with Infringement Chart Exhibits A-1 to G.

Affinity Labs of Texas, LLC, Plaintiff, v. *Dice Electronics, LLC*, et al., Defendants, C.A. No. 9:08-cv-00171-RC, Affinity's Infringement Contentions, with Infringement Chart Exhibits A-C.

U.S. Patent and Trademark Office, Right of Appeal mailed Oct. 1, 2012, with Notice of Appeal filed Oct. 31, 2012 in Reexamination application No. 95/001,266.

Patent Owner, Affinity Labs of Texas, LL, "Patent Owner's Petition to Terminate Inter Partes Reexamination Proceeding," filed in the USPTO on Dec. 7, 2012 in Reexamination application No. 95/001,266.

U.S. Patent and Trademark Office, Action Closing Prosecution mailed Oct. 1, 2012, with Reply to Action Closing Prosecution filed Nov. 1, 2012 in Reexamination application No. 95/001,782.

Patent Owner, Affinity Labs of Texas, LL, "Patent Owner's Petition to Terminate Inter Partes Reexamination Proceeding," filed in the USPTO on Nov. 27, 2012 in Reexamination application No. 95/001,782.

U.S. Patent and Trademark Office, Action Closing Prosecution mailed Oct. 5, 2012, with Reply to Action Closing Prosecution filed Nov. 5, 2012 in Reexamination application No. 90/010,333.

Patent Owner, Affinity Labs of Texas, LL, "Patent Owner's Petition to Terminate Inter Partes Reexamination Proceeding," filed in the USPTO on Nov. 9, 2012 in Reexamination application No. 95/001,281.

U.S. Patent and Trademark Office, Patent Board Decision on Appeal mailed Nov. 1, 2012 in Reexamination application No. 95/001,263.

Patent Owner, Affinity Labs of Texas, LL, "Patent Owner's Petition to Terminate Inter Partes Reexamination Proceeding," filed in the USPTO on Dec. 7, 2012 in Reexamination application No. 95/001,263.

Patent Owner, Affinity Labs of Texas, LL, "Patent Owner's Petition to Terminate Inter Partes Reexamination Proceeding," filed in the USPTO on Dec. 7, 2012 in Reexamination application No. 95/001,262.

Factiva, Hardware Review, "Lost in the Supermarket," Mar. 1, 2000, pp. 1-4.

Sony, "New Technical Theory for Servicing MZ-R5ST Operation Manual," pp. 1-62, Date Unknown.

"Targa TMU-604," PC Authority Reviews, Oct. 8, 2003, pp. 1-2.

"Phillips PSA[128 MAX]," PC Authority Reviews, May 1, 2003, pp. 1-2.

"Sony Network Walkman NW-MS70D," PC Authority Reviews, Oct. 8, 2003, 1 pg.

"Targa TMU-401," PC Authority Reviews, Oct. 8, 2003, pp. 1-2.

Real Networks, Inc., RealJukebox Plus Manual, 1999, pp. 1-90.

Nokia 9110 Communicator User Manual, Copyright 1999.

Sony, "Sony Notebook Computer User Guide PCG-717/719," User Guide, 1997.

AirCard, "Sierra Wireless Announces First Cellular Network Interface Card for Notebook PCs," Jun. 21, 1999.

MusicMatch Internet Music System, "MusicMatch Jukebox Reviews," Mar. 4, 2000, May 8, 1999, Aug. 29, 1999, May 8, 1999, Feb. 4, 1997, Aug. 12, 1999, Jan. 24, 2000, Jan. 25, 2000, Feb. 22, 2000, pp. 1-32.

Bluetooth, "Specification of the Bluetooth System, Profiles," Dec. 1, 1999.

J. Schneidawind, "Big Blue Unveiling," USA Today, Nov. 23, 1992, p. 2B.

Noka Suomi, "Range of suspension GSM products unveiled: Nokia's innovations offer a new dimension to mobile communication," Mar. 13, 1996, 1 page.

Nokia 9000i User's Manual, Copyright 1995-1997.

FCC Website, "Broadband PCS," available at <http://wireless.fcc.gov/services/index.htm?job=service.sub.--home&id=broadband.sub.--pcs> (accessed Nov. 9, 2009).

RealNetworks, "RealPlayer plus, RealPlayer 7 Plus User Manual," Copyright 2000, Mar. 6, 2000.

David Pogue, "SoundJam MP Digital Audio System Manual," 1999.

iTunes Wikipedia Page, <http://en.wikipedia.org/wiki/iTunes>, accessed Jul. 31, 2009.

K. Jost, "The Car as a Mobile-Media Platform," Automotive Engineering International, May 1998, pp. 49-53.

R. Lind, et al., "The Network Vehicle—A Glimpse into the Future of Mobile Multi-Media," 17th AIAA/IEEE/SAE Digital Avionics Sys. Conference Proceedings, Oct. 31 to Nov. 7, 1998, at I21-1 to I21-8.

D. Peters, et al., "Car Multimedia—Mobile Multimedia for the 21st Century," Oct. 5-6, 2000, pp. 1-58.

Stephan Hartwig, et al., "Mobile Multimedia—Challenges and Opportunities Invited Paper," Jun. 19, 2000, pp. 1-12.

John Hanan, "Car Audio Has Come Far since the 8-Track," Knight Ridder/Tribune Business News, Dec. 17, 1999, pp. 1-2.

Business Wire, "Lobjects Announces New Digital Audio Player Technology for the Next-Generation Auto PC," Aug. 4, 1999, pp. 1-2.

Jason Meserve, "Windows Media Player now available for WinCe, (from Microsoft) (Product Announcement)," Network World, Mar. 6, 2000, pp. 1-2.

Business Wire, "HUM MP3 Software Turns Windows CE Handheld Computers Into Portable Music Players," May 24, 1999, pp. 1-2.

Chris De Herrera, "Windows CE 2.0 Auto PC Pictures," Chris De Herrera's Windows CE Website, Revised Jan. 11, 1999, pp. 1-3.

John Murray, "Inside Microsoft Windows CE," Microsoft Press, 1998, pp. 1-20.

Compaq, Intel, Microsoft, NEC, "Universal Serial Bus Device Class Definition for Audio Devices," Release 1.0, Mar. 18, 1998, pp. 1-130.

S.K. Kirschner, "Wired Wheels," Popular Science, Mar. 1998, pp. 54-55.

Compaq, Intel, Microsoft, NEC, "Universal Serial Bus Specification," Revision 1.1, Sep. 23, 1998, pp. 1-327.

Vesa, Video Electronics Standards Association, "VESA Plug and Display (P&D) Standard," Version 1, Revision 0, Jun. 11, 1997, pp. 1-109.

Panasonic, "Portable DVD/Video CD/CD Player, Operating Instructions, DVC-L10D," 1998, pp. 1-84.

Clarion Car Audio and Beyond, "1998 Car Audio & Security Product Catalog," 1998, pp. 1-24.

Clarion Car Audio and Beyond, "1999 Car Audio & Security Product," 1999, pp. 1-60.

Jamie Anderson, "Driving our way soon: the e-car," the Times, Nov. 9, 2000, pp. 1-4.

Clarion Auto PC, "Clarion Auto PC Owner's Manual," 1998, pp. 1-177.

Delphi Automotive Systems, "The Personal Productivity Vehicle," 1998, pp. 1-2.

Delphi Delco Electronics Systems, "On-Board Architecture," 1997, pp. 1-2.

Janet Braunstein, "Diversified Software Industries: Enabling digital instrument panels," Jan. 10, 2001, pp. 1-2.

Microsoft PressPass, "Microsoft Previews New Devices Using Windows CE for Automotive 2.0," Jan. 2000, pp. 1-2.

John Townley, "Countdown to Clarion," Automeia, pp. 1-4, Date Unknown.

Gina Hertel, "A Voice-Activated Co-Pilot: ICES," Odds & Ends, Jan. 2000, vol. 8, Issue 1, pp. 1-5.

Kami Buchholz, "Diversified Software launches Ivis," Automotive Engineering Online, 2009, one page.

(56)

References Cited

OTHER PUBLICATIONS

- Empeg Car webpage, <http://web.archive.org/web/19990430033318/www.empeg.com/main.html>, Apr. 30, 1999, one page.
- Clarion AutoPC, "Frequently Asked Questions," 1998, pp. 1-3.
- Clarion AutoPC, "Frequently Asked Questions," 1999, pp. 1-9.
- Stereophile, "Clarion Debuts World's First Automobile PC/Stereo," Dec. 5, 1998, pp. 1-3.
- Steve Whalley, "Peripherals to Go: USB in AutoPC," pp. 1-2, Date Unknown.
- Gregory L. White, "After AutoPC's Hard Ride, Detroit Tries Rebooting In-Car Computers," *The Wall Street Journal*, pp. 1-3, Oct. 4, 2000.
- Affinity Labs of Texas, LLC*, Plaintiff, v. *BMW North America, LLC*, et al., Defendants, C.A. No. 9:08-cv-00164-RC, Affinity's Infringement Contentions, with Infringement Chart Exhibits A-G. Feb. 2, 2009.
- Affinity Labs of Texas, LLC*, Plaintiff, v. *Alpine Electronics of America, Inc.*, et al., Defendants, C.A. No. 9:08-cv-00171-RC, Affinity's Infringement Contentions, with Infringement Chart Exhibits A-1 to G. Feb. 2, 2009.
- Affinity Labs of Texas, LLC*, Plaintiff, v. *Dice Electronics, LLC*, et al., Defendants, C.A. No. 908-cv-00171-RC, Affinity's Infringement Contentions, with Infringement Chart Exhibits A-C. Feb. 2, 2009.
- Affinity Labs of Texas, LLC*, Plaintiff, v. *Dice Electronics, LLC*; et al., Defendants, C.A. No. 9:08-cv-00163 (Eastern District of Texas), Defendants' Motion to Stay Litigation Pending Reexamination, Filed Jan. 12, 2009, pp. 1-15.
- Exhibit B to Defendants' Motion to Stay Litigation Pending Reexamination (Ex Parte Reexamination Communication Transmittal Form and Order Granting Request for Ex Parte Reexamination, Issued by the U.S. Patent and Trademark Office on Dec. 12, 2008, pp. 1-16).
- Affinity Labs of Texas, LLC*, Plaintiff, v. *BMW North America, LLC*, et al., Civil Action No. 9:08-cv-00164 RC (Defendants' Joint Motion to Stay Litigation Pending Reexamination, Filed on Jan. 13, 2009, pp. 1-8).
- J. Braunstein, "Airbag Technology Takes Off," *Automotive & Transportation Interiors*, Aug. 1996, p. 16.
- I. Adcock, "No Longer Square," *Automotive & Transportation Interiors*, Aug. 1996, pp. 38-40.
- M. Krebs, "Cars That Tell You Where to Go," *The New York Times*, Dec. 15, 1996, section 11, p. 1.
- Sun Microsystems, Inc., "What is Jini?,"—Summary.
- Mobile GT, "The Architecture for Driver Information Systems." Request for Ex Parte Reexamination Under 35 U.S.C. §302 for U.S. Pat. No. 7,324,833, Filed on Nov. 7, 2008 (pp. 1-21).
- Richard Menta, "1200 Song MP3 Portable is a Milestone Player," Jan. 11, 2000, pp. 1-3.
- Affinity Labs of Texas, LLC*, Plaintiff, v. *BMW North America, LLC*, et al., Defendants, Case No. 9:08-cv-00164-RC, Defendant Volkswagen Group of America, Inc.'s Invalidity Contentions, pp. 1-346, Mar. 20, 2009.
- Affinity Labs of Texas, LLC*, Plaintiff, v. *Dice Electronics, LLC*, Defendants, Case No. 9:08-cv-00163-RC; *Affinity Labs of Texas, LLC*, Plaintiff, v. *Hyundai Motor America, et al.*, Defendants, Case No. 9:08-cv-00164-RC; *Affinity Labs of Texas, LLC*, Plaintiff, v. *JVC Americas Corp.*, *Kenwood USA Corporation*, Defendants, Case No. 9:08-cv-00171-RC, Defendants Joint Invalidity Contentions and Production of Documents Pursuant to Patent Rules 3-3 and 3-4(b), pp. 1-23 and Exhibits A, B1-B34, C and D, Mar. 20, 2009.
- U.S. Patent and Trademark Office, Issue Notification in U.S. Appl. No. 10/947,754, 1 page, Oct. 21, 2008.
- R. Lind, et al. "The Network Vehicle—A Glimpse into the Future of Mobile Multi-Media," Sep. 1999, pp. 27-32.
- Daniel Kumin, *Stereo Review*, "Jukebox Heaven," Jan. 1999, pp. 64-71.
- Factiva, *Hardware Review*, "Lost in the Supermarket," 2009, pp. 1-3.
- Jamie Sorcher, *Stereo Review*, "New for the Road," May 1998, 2 pages.
- John Whitters, *The Advertiser*, "Is the cassette doomed?" Jul. 16, 1998, pp. 1-2.
- George Cole, *Financial Times*, "Listen with your eyes: A new music CD format supplies textual information," Oct. 23, 1997, pp. 1-2.
- Dana J. Parker, *Standard Deviations*, "CD-TEXTual Read all about it!," Oct. 1996, pp. 1-2.
- Alpine, "Interface Adapter for iPod KCA-420i—Owners Manual," 44 pages total.
- Amy Gilboy, *Mobile Electronics*, "Apple's iPod Seen Transforming Car Audio Business," 1 page.
- Greg Borrowman, *The Sydney Morning Herald*, "Philips Releases Its Latest DVD," 1999, 2 pages total.
- JVC, "AudioNideo Control Receiver, RX-668VBK, Instructions," pp. 1-43.
- Von Herbert Pauler, *Funkschau*, "Kopierschulz für MP3-Audio," 1999, 9 pages total.
- English Summary, "A device for remotely controlling a car device for playing mp3 files is disclosed . . .", 1 page.
- Franklin N. Tessler, *Macworld*, "Mobile MAC, Highway Fidelity," Jun. 2004, pp. 1-3.
- Barry Collins, *The Sunday Times*, "High-class high-tech—Buyer's guide," 2001, 2 pages total.
- Peter Familiar, *Herald-Sun*, "Clever Deck—CD and mini-disc combination," 1998, 1 page.
- JVC, "MD-CD Combination Deck, XU-301BK, Instructions," pp. 1-59.
- Amy Gilroy, *Mobile Electronics*, "OEM Integrators Embrace iPod's Success," 1 page.
- JVC, "Portable Minidisc Recorder, XM-R700SL, Instructions," pp. 1-24.
- Rio Car, "Car Toy Sole Retailer for Rio Car," May 28, 2001, 1 page.
- Amy Gilroy, *Twice*, "Panasonic Ships First SD MP3," Dec. 4, 2000, 1 page.
- Kevin Savetz, *The Washington Post*, "Putting Your MP3 Collection in Drive (Final Edition)," Aug. 10, 2001, pp. 1-3.
- Japanese Webpage, www.kcalgo.kr/jsp/main.jsp, 1 page.
- Japanese Webpage, www.kca.go.kr—Brochure Free—Microsoft Internet Explorer, 1 page.
- Stephen Kempainen, *EDN Access for Design*, By Design "In-car computing gets personal," Aug. 17, 1998, pp. 1-7.
- Japanese Website, mm.mpmmania.com, <http://mpmania.x-y.net/bbs/zboard.php?id=products&keyword=1998>, 1 page.
- Japanese document regarding MP3, May 1999, 1 page.
- MPMan, "The portable MP3 player using the Flash Memory and Memory card—MP-F20," in Japanese, pp. 1-34.
- Japanese Website, mm.mpmmania.com, <http://mpmania.x-y.net/bbs/view.php?id=products&page=1&sn1=&divpage=1>, 1 page.
- www.mpmman.com, "MP-F30, Users Guide," pp. 2-47.
- U.S. Patent and Trademark Office, Office Action in Inter Partes Reexamination of U.S. Pat. No. 7,486,926, Control No. 95/001,263, Office Action issued Jul. 9, 2010, 20 pgs.
- Mark Moeller, *Computing Unplugged Magazine*, "Software Review, New software products for the Auto PC," 1999-2009, Zatz Publishing, pp. 1-4.
- Mark Moeller, *Computing Unplugged Magazine*, "Auto PC Power, A survey of resources for Auto PC owners," 1999-2009, Zatz Publishing, pp. 1-5.
- Mark Moeller, *Computing Unplugged Magazine*, "Auto PC Power, A look at the first year of the Auto PC with Microsoft," 1999-2009, Zatz Publishing, pp. 1-5.
- Mark Moeller, *Computing Unplugged Magazine*, "Auto PC Power, Next generation AutoPCs make a big debut at CES," 2009, Zatz Publishing, pp. 1-6.
- Mark Moeller, *Computing Unplugged Magazine*, "Programming Power, Getting started developing software for the Auto PC," 1999-2009, Zatz Publishing, pp. 1-5.
- Mark Moeller, *Computing Unplugged Magazine*, "Behind the Scenes, The AutoPC: Vision vs. Reality," 1999-2009, Zatz Publishing, pp. 1-7.

(56)

References Cited

OTHER PUBLICATIONS

- Affinity, Labs of Texas, LLC*, Plaintiff, v. *Apple, Inc.*, Defendant, C.A. No. 9.09-cv-00047-RC (Eastern District of Texas), Complaint (pp. 1-7), with Exhibits A, B and C, Filed March 24, 2009 76 pages in total.
- Mark Moeller, Computing Unplugged Magazine, "Product Preview, A Survey of Auto PC 2.0 for software developers," 1999-2009, Zatz Publishing, pp. 1-7.
- Mark Moeller, Computing Unplugged Magazine, "AutoPC Update, Auto PC/Windows CE for Automotive news bites," 1999-2009, Zatz Publishing, pp. 1-4.
- Claim Chart for KR12990033393, Claim 17 of U.S. Pat. No. 7,324,833, pp. 1-3.
- RIO500, Getting Started Guide for Windows 98 and Macintosh OS 8.6, pp. 1-2.
- Norbert A. Streitz, et al., "DOLPHIN: Integrated Meeting Support Across Local and Remote Desktop Environments and LiveBoards," Integrated Publication and Information Systems Institute, 1994, pp. 345-358.
- Leo Degen, et al., "Working with Audio: Integrating Personal Tape Recorders and Desktop Computers," May 3-7, 1992, pp. 413-418.
- H.S. Jun Gibee, "A Virtual Information Desk on the Internet," University of Ulsan, Sep. 1999, pp. 265-268.
- Steve Whittaker, et al., "TeleNotes: Managing Lightweight Interactions in the Desktop," Lotus Development Corporation, Jun. 1997, pp. 137-168.
- R.M. Crowder, et al., "Integration of Manufacturing Information Using Open Hypermedia," Computer in Industry, 1999, pp. 31-42.
- Tomas Bostrom, et al., "Mobile Audio Distribution," Royal Institute of Technology, 1999, pp. 166-172.
- Alex Poon, et al.; Xerox Disclosure Journal, vol. 19, No. 2, "Gestural User Interface Technique for Controlling the Playback of Sequential Media," Mar./Apr. 1994, pp. 187-190.
- Deb Kumar Roy, "NewsComm: A Hand-Held Device for Interactive Access to Structured Audio," Massachusetts Institute of Technology, Jun. 1995, pp. 1-12.
- Victoria Bellotti, et al., "Walking Away from the Desktop Computer: Distributed Collaboration and Mobility in a Product Design Team," 1996, pp. 209-218.
- Upul Obeysekare, et al., "The Visual Interactive Desktop Laboratory," Jan.-Mar. 1997, pp. 63-71.
- Asim Smailagic, et al., "MoCCA: A Mobile Communication and Computing Architecture," Institute for Complex Engineered Systems, pp. 1-8.
- Sui-Meng Poon, et al., "Integration of Value-Added Audio Playback Capacity Into Computer Network," Nanyang Technological University, 1995, pp. 632-636.
- Erdal Paksoy, et al., "A variable-rate celp coder for fast remote voicemail retrieval using a notebook computer," DSPS R&D Center, Texas Instruments, 1997, pp. 119-124.
- Jeffrey A. Davis, "Use of Personal Computers in Satellite Command and Control Systems," Raytheon Systems Company, Oct. 24, 1999, pp. 283-291.
- Niki Davis, "Remote Teaching Via ISDN2 and Desktop Conferencing," Exeter University School of Education, pp. 1-3.
- A Chan, et al., "The PEP-II Project-Wide Database," Stanford University, 1996, pp. 840-842.
- Krishna Bharat, et al., "Migratory Applications," Springer Berlin, vol. 1222, 1997, pp. 1-21.
- Empeg Car, "MP3 in your dash," Digital Audio Player User Guide, pp. 1-50.
- Saul Greenberg, "PDAs and Shared Public Displays: Making Personal Information Public, and Public Information Personal," University of Calgary, Mar. 1999, pp. 1-11.
- Naohiko Kohtake, et al., "InfoStick: an interaction device for Inter-Appliance Computing," Keio University, pp. 1-15.
- Hewlett Packard, User's Guide, HP Jornada 420, Palm-Size PC, pp. 1-75.
- Microsoft, "Introducing Microsoft Windows 95—Certificate of Authenticity," 1995, pp. 1-117.
- Sony, "New Technical Theory for Servicing, MZ-R5ST Operation Manual," pp. 1-44.
- Richard C. Davis, et al., "A Framework for Sharing Handwritten Notes," 1998, pp. 119-120.
- Krishna A. Bharat, et al., "Migratory Applications," UIST '95, Nov. 14-17, 1995, pp. 133-142.
- Brad A. Myers, "Collaboration Using Multiple PDAs Connected to a PC," Carnegie Mellon University, 1998, pp. 385-294.
- Richard C. Davis, et al., "NotePals: Lightweight Note Sharing by the Group, for the Group," May 15-20, 1999, pp. 338-345.
- Jun Rekimoto, et al., "Augmented Surfaces: A Spatially Continuous Work Space for Hybrid Computing Environments," May 15-20, 1999, pp. 378-385.
- Dan R. Olsen, Jr., "Interacting with Chaos," Sep. and Oct. 1999, pp. 42-54.
- Scott Robertson, et al., "Dual Device User Interface Design: PDAs and Interactive Television," Apr. 13-18, 1996, pp. 79-86.
- Krishna Bharat, et al., Migratory Applications, "Mobile Object Systems Towards the Programmable Internet," Springer Berlin/Heidelberg, vol. 1222/11997, 1997, pp. 1-134.
- Norbert A. Streitz, et al., "i-Land: An Interactive Landscape for Creativity and Innovation," Proceedings of the ACM Conference on Human Factors in Computing Systems, May 15-20, 1999, pp. 120-127.
- Norbert A. Streitz, et al., "Roomware for Cooperative Buildings: Integrated Design of Architectural Spaces and Information Spaces," pp. 1-20.
- Direct Cable Connection screen shot, "BIU6U4," 10 pages total.
- Direct Cable Connection screen shot, 10 pages total.
- Kevin Jost, Automotive Engineering International, "The car as a mobile-media platform," May 1998, pp. 49-53.
- Microsoft, "Palm PC User's Guide," Microsoft Windows CE, pp. 1-39.
- Cover Sheet, www.mpman.com, 1 page.
- Smart Media Card Slot Diagram, 1 page.
- MP Man F20 Logo, 1 page.
- Smart Media card diagram and install instructions, pp. 1-4.
- Anand Lal Shimpi, Empeg, Ltd., "MP3 meets Car Audio: Empeg Mark II in-dash Car MP3 Player," Sep. 18, 2000, pp. 1-17.
- Peter Clarke, EE Times, "Engineers drive craze for MP3 audio players," Feb. 5, 1999, pp. 1-4.
- Rio Car Dot Org Geek Guide, "empeg car Mk. 1," Feb. 21, pp. 1-4.
- Hugo Fiennes, Rio Car Dot Org Geek Guide, "MP3 Mobile," Feb. 21, pp. 1-4.
- Rio Car Dot Org, Frequently Asked Questions, pp. 1-16.
- Stephen J. Buckley, et al., "The Car as a Peripheral, Adapting a Portable Computer to a Vehicle Intranet," SAE Technical Paper Series, 98C030, Oct. 19-21, 1998, pp. 1-14.
- BMW, "Betriebsanleitung Bordmonitor mit Navigation und TV," 1995, pp. 1-82.
- Heinz Sodeikat, "Euro-Scout is facing the German 1994 Market," 1994, pp. 551-556.
- Pictures of car navigation systems in a car dashboard, pp. 1-11.
- Oldsmobile, "1991 Toronado/Trofeo User's Guide," 1991, pp. 1-41.
- Yepp, "Digital Sounds—yepp—YP-E32/E64102-291," Oct. 23, 1999, pp. 1-46.
- U.S. Appl. No. 60/167,179, entitled "System, Method, and Device for Playing Recorded Music on a Wireless Communications Device," by Devon A. Rolf, filed Nov. 23, 1999, pp. 1-48.
- Ha-Young Park, The Customer Times, "Portable Computer Music, MP3 File and MP3 Player rise as the Next Generation Audio Format," May 1999, pp. 1-2.
- MPMan, "MP-F20, Users Guide, Portable MP3 player using the flash memory and a Memory card," [ages 1-16.
- MusicMatch Internet Music System, "MusioMatch Jukebox Reviews," Mar. 4, 21100, May 8, 1999, Aug. 29, 1999, May 8, 1999, Feb. 4, 1997, Aug. 12, 1999, Jan. 24, 2000, Jan. 25, 2000, Feb. 22, 2000, pp. 1-32.
- Nokia Suomi, "Range of suspension GSM products unveiled: Nokia's innovations offer a new dimension to mobile communication," Mar. 13, 1996, 1 page.

(56)

References Cited

OTHER PUBLICATIONS

FCC Website, "Broadband PCS," available at http://wireless.fcc.gov/services/index.htm?job=service_home&id=broadband_pcs (accessed Nov. 9, 2009).

iTunes Wikipedia Page, <http://en.wikipedia.org/wiki/ITunes>, accessed Jul. 31, 2009.

Request for Inter Partes Reexamination of U.S. Pat. No. 7,187,947, filed on Nov. 13, 2009, with accompanying Claim Charts.

Request for Inter Partes Reexamination of U.S. Pat. No. 7,440,772, filed on Nov. 13, 2009, with accompanying Claim Charts.

Request for Inter Partes Reexamination of U.S. Pat. No. 7,324,833, filed on Nov. 13, 2009, with accompanying Claim Charts.

Request for Inter Partes Reexamination of U.S. Pat. No. 7,486,926, filed on Nov. 13, 2009, with accompanying Claim Charts.

Request for Inter Partes Reexamination of U.S. Pat. No. 7,634,228, filed on Feb. 3, 2010, with accompanying Claim Charts.

Reply to Office Action Mailed Aug. 5, 2009 in Reexamination Control No. 90/010,333 of U.S. Pat. No. 7,324,833 (along with a Supplemental Reply and Second Supplemental Reply).

Response to Notice of Failure to Comply with Inter Partes Reexamination Request Filing Requirements (37 CFR 1.915(d)) filed on Sep. 22, 2009. Requestor: Volkswagen Group of America, Inc. with Replacement Request for Inter Partes Reexamination of U.S. Pat. No. 7,324,833 and Claim Charts A-JJ.

The United States Patent and Trademark Office, Office Action Mailed Nov. 9, 2007 in related U.S. Appl. No. 10/947,755.

The United States Patent and Trademark Office, Office Action Mailed Aug. 5, 2009, in a related application.

Affinity Labs of Texas, LLC (Plaintiff) v. *BMW North America, LLC, et al.* (Defendants), Case No. 9:08-cv-00164-RC, Answer and Counterclaim of Defendant Volkswagen Group of America, Inc., to Third Amended Complaint, pp. 1-48, filed on Jan. 15, 2010.

Affinity Labs of Texas, LLC (Plaintiff) v. *Alpine Electronics of America, Inc., et al.* (Defendants), Civil Action No. 9:08-cv-171, Order Denying Without Prejudice Defendants' Motion for Summary Judgment, one page, filed on Feb. 25, 2010.

Affinity Labs of Texas, LLC, Plaintiff, v., *BMW North America, LLC, et al.*, Civil Action No. 9:08CV164, *Affinity Labs of Texas, LLC*, Plaintiff, v., *Alpine Electronics of America, Inc., et al.*, Civil Action No. 9:08CV171, Order Construing Claim Terms of U.S. Pat. No. 7,634,228, Filed on May 10, 2010, pp. 1-27.

Business Wire, "'HUM' MP3 Software Turns Windows CE Hand-held Computers Into Portable Music Players," May 24, 1999, pp. 1-2.

Affinity Labs of Texas, LLC, Plaintiff, v., *BMW North America, LLC, et al.*, Defendants, Case No. 9:08-cv-00164-RC, First Amended Answer and Counterclaim of Defendant Volkswagen Group of America, Inc. to Third Amended Complaint, Filed on Apr. 9, 2010, pp. 1-57.

Affinity Labs of Texas, LLC, Plaintiff, v., *BMW North America, LLC, et al.*, Defendants, Case No. 9:08-cv-00164-RC, Amended Answer and Counterclaim of Defendants Hyundai Motor America, Hyundai Motor Manufacturing Alabama, LLC, and KIA Motors America, Inc. to Plaintiff Affinity Labs of Texas, LLC's Third Amended Complaint, Filed on Apr. 9, 2010, pp. 1-22.

Affinity Labs of Texas, LLC, Plaintiff, v., *BMW North America, LLC, et al.*, Defendants, Case No. 9:08-cv-00164-RC, Plaintiffs Reply to Amended Answer and Counterclaim of Defendants Hyundai Motor America, Hyundai Motor Manufacturing Alabama, LLC and KIA Motors America, Inc. to Plaintiff Affinity Labs of Texas, LLC's Third Amended Complaint, Filed on April 27, 2010, pp. 1-7.

Affinity Labs of Texas, LLC, Plaintiff, v., *BMW North America, LLC, et al.*, Defendants, Case No. 9:08-cv-00164-RC, Plaintiffs Reply to First Amended Answer and Counterclaim of Defendant Volkswagen Group of America, Inc. to Third Amended Complaint, Filed on Apr. 27, 2010, pp. 1-7.

Panasonic, "Portable DVD/Video CD/CD Player, Operating Instructions, DVC-L10D," 1998, pp. 1-84.

John Townley, "Countdown to Clarion," Automedia, pp. 1-4.

Steve Whalley, "Peripherals to Go: USB in AutoPC," pp. 1-2.

Gregory L. White, "After AutoPC's Hard Ride, Detroit Tries Rebooting In-Car Computers," *The Wall Street Journal*, pp. 1-3.

Affinity Labs of Texas, LLC, Plaintiff, v., *BMW North America, LLC, et al.*, Defendants, Civil Action No. 9:08-CV-164, Order Denying Defendant's Motion to Dismiss, Filed on Sep. 2, 2009, pp. 1-7.

Affinity Labs of Texas, LLC (Plaintiff) v. *BMW North America, LLC, et al.* (Defendants), Civil Action No. 9:08CV164 and *Affinity Labs of Texas, LLC* (Plaintiff) v. *Alpine Electronics of America, Inc., et al.*, Civil Action No. 9:08CV171, Order Construing Claim Terms of U.S. Pat. No. 7,324,833, issued on Dec. 18, 2009, pp. 1-31.

"Request for Inter Partes Reexamination of U.S. Pat. No. 7,324,833 Pursuant to 37 CFR 1.915," Requestor: Volkswagen Group of America, Inc., Filed on Aug. 21, 2009, pp. 1-61 with Certificate of Mailing, and Claim Charts A-HH.

Multi Technology Equipment, "Neo Car Jukebox, Installation and Instruction Manual," pp. 1-30.

U.S. Patent and Trademark Office, Office Action in Inter Partes Reexamination mailed on May 24, 2010, in U.S. application reexamination serial No. 95/001,262.

U.S. Patent and Trademark Office, Office Action in Inter Partes Reexamination dated Jun. 14, 2010 in U.S. Appl. No. 95/001,223.

U.S. Patent and Trademark Office, Ex Parte Reexamination Communication Transmittal Form dated Jun. 14, 2010 providing "Decision, Sua Sponte, to Merge Reexamination Proceedings," in U.S. Appl. No. 95/001,223.

U.S. Patent and Trademark Office, Office Action in Inter Partes Reexamination of U.S. Pat. No. 7,440,772, Reexamination Control No. 95001266, Office Action issued on Aug. 2, 2010, 14 pages.

Affinity Labs of Texas, LLC, v. BMW North America, LLC, et al., Civil Action No. 9:08CV164, Order Denying Defendant's Motion for Summary Judgment of Non-Infringement of the '833 Patent, filed Oct. 7, 2010, pp. 1-5.

Affinity Labs of Texas, LLC, v. Hyundai Motor America, Inc.; Hyundai Motor Manufacturing Alabama LLC; Volkswagen Group of America, Inc.; and Kia Motors America, Inc., Civil Action No. 9:08CV164, Jury Verdict Form, filed Oct. 28, 2010, pp. 1-16.

Affinity Labs of Texas, LLC, vs. BMW North America, LLC, et al., Oct. 27, 2010, vol. 8 of __, pp. 2100 Through 2633, Reporter's Transcript of Jury Trial, pp. 1-88.

Affinity Labs of Texas, LLC, vs. BMW North America, LLC, et al., Oct. 28, 2010, vol. 9 of 9, pp. 2634 Through 2824, Reporter's Transcript of Jury Trial, pp. 1-19.

Affinity Labs of Texas, LLC, Plaintiff and Counter-Claim Defendant, vs. Apple Inc., Defendant and Counter-Claim Plaintiff, Case No. Sep. 4436-CW, Apple Inc.'s First Invalidity Contentions Pursuant to Patent Local Rule 3-3, filed Jan. 5, 2011, pp. 1-25, with accompanying Appendixes A-G.

U.S. Patent and Trademark Office, Office Action mailed May 24, 2010 with Reply filed on Jul. 23, 2010 and supplemental reply filed on Jul. 26, 2010 for U.S. patent reexamination No. 95/001,262.

Third Party Requester's Comments to Patent Owner's Supplemental Reply of Jul. 26, 2010 Pursuant to 37 C.F.R. 1.947, filed on Aug. 25, 2010 for U.S. patent reexamination No. 95/001,262.

U.S. Patent and Trademark Office, Office Action mailed Aug. 2, 2010 with Reply filed on Oct. 1, 2010 for U.S. patent reexamination No. 95/001,266.

U.S. Patent and Trademark Office, Office Action mailed Jul. 7, 2009 with Reply filed on Sep. 9, 2009 for U.S. patent reexamination No. 95/001,263.

Third Party Requester's Comments to Patent Owner's Supplemental Reply of Sep. 9, 2010 Pursuant to 37 C.F.R. 1.947, filed on Oct. 12, 2010 for U.S. patent reexamination No. 95/001,263.

U.S. Patent and Trademark Office, Office Action mailed Sep. 2, 2010 with Reply filed on Nov. 2, 2010 for U.S. patent reexamination No. 95/001,281.

GSM 03.64 version 6.0.1 Release 1997, TS 101 350 V6.0.1, 42 pages, Aug. 1998.

Novak, Druce and Quigg, LLP, Third Party Requester's Comments to Patent Owner's Reply of Sep. 14, 2010 Pursuant to 37 C.F.R. 1.947 with Exhibits A-E, mailed Dec. 20, 2010, in U.S. Patent Reexamination No. 90/010,333.

Declaration of Scott Andrews Under 37 C.F.R. 1.132 with Exhibits A-C, submitted with Comments of Requester, Volkswagen Group of

(56)

References Cited**OTHER PUBLICATIONS**

- America, Inc., Pursuant to 37 CFR 1.947, mailed Feb. 11, 2011, in U.S. Patent Reexamination No. 95/001,281.
- Declaration of Dr. DeWayne Perry Under 37 C.F.R. 1.132 with Exhibits A-P, submitted with Comments of Requester, Volkswagen Group of America, Inc., Pursuant to 37 CFR 1.947, mailed Feb. 11, 2011, in U.S. Patent Reexamination No. 95/001,281.
- "Handbook for the WorkPad c3 PD Companion" 3Com Corporation, 1998, 240 pages.
- "IEEE 100 The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition" Published by Standards Information Network, IEEE Press, 2000, pp. 357 and 994.
- Kenyon & Kenyon LLP, Comments of Requester, Volkswagen Group of America, Inc., Pursuant to 37 CFR 1.947, mailed Feb. 11, 2011, with Claims Charts (pp. 1-46) and Exhibits 1-11 in U.S. Patent Reexamination No. 95/001,281.*
- Kenyon & Kenyon LLP, Comments of Requester, Volkswagen Group of America, Inc., Pursuant to 37 C.F.R. 1.947 mailed Dec. 20, 2010 in U.S. Patent Reexamination No. 95/001,233 (merged with 90/010,333 and 95/001,264), with Claims Charts (pp. 1-80) and Exhibits 1-11.
- Declaration of Scott Andrews Under 37 C.F.R. 1.132 with Exhibits A-C, submitted with Comments of Requester, Volkswagen Group of America, Inc., Pursuant to 37 CFR 1.947, mailed Dec. 20, 2010, in U.S. Patent Reexamination No. 95/001,233.
- Sony Corporation, Sony Portable MiniDisc Recorder MZ-R90/MZ-R91 Operating Instructions, Doc. No. 3-867-571-22(1), 1999, pp. 1-55.
- Empeg Car User Guide, 1999, pp. 1-19.
- Empeg Car User Guide (2000) pp. 1-48.
- Crowe, Mike. Empeg Car Beta 10a, Mar. 25, 2000, 3 pages.
- Emplode Help, (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)) 25 pages.
- "MP3 Portable Player Goes Elite" The Mac Observer, Nov. 17, 1999, 3 pages.
- "MP3 in Your Car Has Arrived" (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)) 1 page.
- Photos from Comdex Fall 1999, Nov. 1999, 9 pages.
- Photos from LinuxWorld Expo, Winter 1999, Mar. 1-4, 1999, 22 pages.
- Craig Knudsen, "MP3 Linux Players," Linux Journal, Jul. 1, 1999, pp. 1-3.
- riocar.org—Empeg Car History, (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)), 4 pages.
- "Visteon: For Your Listening Pleasure—Any Music, Any Time, Anywhere," Presswire, Jan. 5, 2000, 1 page.
- Photographs in email to Hugo Fiennes, Sep. 22, 1999, 4 pages.
- HP Jornada 420 User's Manual, 1999, pp. 1-142.
- IEEE Standard 802.11b, 1999 Edition (Wireless LAN Medium Access Control and Physical Layer Specifications: Higher-Speed Physical Layer Extension in the 2.4 GHz Band) Sep. 16, 1999, 96 pages.
- RealPlayer Plus G2 Manual, 1999, pp. 1-81.
- IEEE Standard 802.11a, 1999 Edition (Wireless LAN Medium Access Control and Physical Layer Specifications: High-Speed Physical Layer in the 50Hz Band), 1999, 91 pages.
- Rod Underhill & Nat Gertler, "The Complete Idiot's Guide to MP3: Music on the Internet," 1999, 44 pages.
- Bill Mann, "I Want My MP3! How to Download, Rip, & Play Digital Music," McGraw-Hill 2000, 175 pages.
- IEEE Standard 802.11, 1997 Edition (Wireless LAN Medium Access Control and Physical Layer Specifications), 1997, pp. 1-145.
- Rio 600 User Guide, Mar. 2001, pp. 1-38.
- IBM Wireless Modem for Cellular/CDPD—Quick Reference, Oct. 1995, pp. 1-20.
- Creative Sound Blaster Live! Platinum product, documentation, and software: Creative Technology Ltd., Creative Sound Blaster Live! Platinum Getting Started, Sep. 1999, 93 pages.
- Psa[play Getting Started Guide, (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)), pp. 1-16.
- Psa[play Getting Started Guide, 2000, pp. 1-16.
- Rio 800 User Guide, 2001, pp. 1-38.
- Rio 800 Digital Audio Player—Getting Started, 2000, pp. 1-19.
- Rio 600 Getting Started Guide, 2001, pp. 1-169.
- The Rio 500 Getting Started Guide, 1999, pp. 1-2.
- "Visteon's Mobile Office Solutions Give Busy Commuters More of What They Need—Time," Canada Newswire, Sep. 15, 1999, 3 pages.
- Hiatt, "RIAA Sues Napster, Claiming 'Music Piracy'," MTV News, Dec. 8, 1999, 3 pages.
- Sony VAIO Notebook Computer User Guide PCG-731/PCG-735, 1998, pp. 1-131.
- Sony VAIO Notebook Computer User Guide PCG-812, 1998, pp. 1-144.
- Sony VAIO Notebook Computer User Guide PCG-838, 1999, pp. 1-121.
- Sony Service Manual PCG-731/735/737, 1997, pp. 1-22.
- Sony Service Manual PCG-723/729, 1998, pp. 1-22.
- Boehlert, "Artists to Napster: Drop Dead" Salon.com, Mar. 24, 2000, 3 pages.
- Sony Service Manual PCG-812/818, 1998, pp. 1-22.
- Sony Service Manual PCG-838, 1999, pp. 1-22.
- "Digital Download Provider Musicmaker.com Partners With Download Directory Listen.com; Offers Nearly 100,000 Downloadable Tracks Via the Online Directory," PR Newswire, Sep. 15, 1999, pp. 1-3.
- MP3.com prospectus, Jul. 21, 1999, pp. 1-81.
- Ana Orubeondo, "Trim AirCard 300 Eases Power Demands," InfoWorld, vol. 21, Issue 48, Nov. 29, 1999, p. 46 & 50.
- "Net Music Firms to Tap Public Market," Billboard, Jul. 17, 1999, pp. 1-2.
- "Cellular for Notebook PCs." CIO Vo., 13, No. 1, Oct. 1, 1999, p. 90.
- "Briefs," Network World, vol. 16, No. 24, Aug. 23, 1999, p. 27.
- The MusicMatch.com website (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)) 32 pages.
- The MusicMaker.com website (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)), 10 pages.
- Qualcomm QCP-1960 User Manual, Apr. 1999, pp. 1-76.
- Samsung SCH-3500 User Manual, 1999, pp. 1-108.
- Motorola Digital StarTAC User Guide, Mar. 1999, pp. 1-118.
- Nokia 9110 Quick Guide/Accessories Guide, 1999, pp. 1-31.
- "MP3.com and i-drive.com Join Forces to Store and Manage MP3 Files," Business Wire, Oct. 7, 1999, pp. 1-3.
- Nomad User Guide, Jun. 1999, pp. 1-34.
- Nomad II Getting Started Manual, Jan. 2000, pp. 1-38.
- GSM 03.64 version 6.2.0 Release 1997, European Telecommunications Standards Institute, 1999, pp. 1-42.
- The i-Drive.com website (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)) 6 pages.
- GSM 03.64 version 7.0.0 Release 1997, European Telecommunications Standards Institute, 1999, pp. 1-42.
- Riocar.org, "rio car dot org Geek Guide," empeg car Mk.1, Jul. 16, 2010, 4 pages.
- The MP3.com website (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)) Screenshots from MP3.com website (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)), 8 pages.
- MP3.com and i-drive.com Join Forces to Store and Manage MP3 Files, Business Wire, Oct. 7, 1999, pp. 1-3.
- The EMusic.com website (formerly www.goodnoise.com) (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)) 2 pages.

(56)

References Cited

OTHER PUBLICATIONS

EMusic.com prospectus, Sep. 24, 1999, pp. 1-61, F1-F41.

"Logging On; Setting Sound Free From the CD," The Washington Post, Mar. 3, 2000, pp. 1-3.

"Music Factory; Retailers Struggle to Expand Listening Options Online," Contra Costa Times Mar. 19, 2000, pp. 1-2.

The MyPlay.com website (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)) 1 page.

Myplay.com Launches Today, PR Newswire. Oct. 13, 1999, pp. 1-2.

Myplay, Inc. Launches Consumer Online. Music Service, PR Newswire, Oct. 13, 1999, pp. 1-3.

Empeg.com, "Does Your Car Stereo Run Linux," (date unknown, contended by defendant Apple Corp. to be prior art under one or more of 35 U.S.C. 102 (a), (b), (f) and (g)), 2 pages.

TIA/EIA Interim Standard, Cellular Digital Packet Data, System Specification—Part 403, Mobile Data Link Protocol, Telecommunications Industry Association. Dec. 1997, 83 pages.

"The Listen Up Player from Audio Highway" 1996. 1 page.

"Audio Highway Announces the Listen Up Player," Audio Highway Press Release, Sep. 23, 1996, 2 pages.

MPMan F-10 and F-20 digital audio players and review article "MP3 Player Saehan MPMAN F20 Review", X-bit labs, Jul. 14, 1999. 6 pages.

Menta, "RIAA Sues Music Startup Napster for \$20 Billion" Newswire, Jan. 11, 2000, 4 pages.

Cai, Jian, et al., "General Packet Radio Service in GSM," IEEE Communications Magazine, Oct. 1997.

RealNetworks, "RealPlayer Plus G2 Manual," Copyright 1998-1999.

Rathbone, Andy, "MP3 for Dummies," IDG Books Worldwide, Copyright 1999.

Affinity Labs of Texas, LLC v. BMW North America, LLC, et al., C.A. No. 9:08CV164 and *Affinity Labs of Texas, LLC v. Alpine Electronics of America, Inc., et al.*, C.A. No. 9:08CV171, Eastern District of Texas, Order Construing Claim Terms of U.S. Pat. No. 7,324,833, Dec. 18, 2009, pp. 1-31.

Exhibit B to Third Party Requester's Comments to Patent Owner's Supplemental Reply of Jul. 26, 2010 filed Aug. 25, 2010 in Reexamination No. 95/001,262 (Declaration of Dr. Bruce Maggs dated Aug. 25, 2010).

Exhibit A to Third Party Requester's Comments to Patent Owner's Reply of Sep. 9, 2010 filed Oct. 12, 2010 in Reexamination No. 95/001,263 (Declaration of Dr. Bruce Maggs dated Oct. 12, 2010).

Nokia, "Quick Guide—Accessories Guide," Copyright 1999.

U.S. Appl. No. 60/167,179, filed Nov. 23, 1999.

U.S. Appl. No. 09/234,259, filed Jan. 20, 1999.

U.S. Appl. No. 10/947,755, filed Sep. 23, 2004.

"Philips PSA [128MAX]," PC Authority Reviews, May 1, 2003, 1 pg.

"Targa TMU-401," PC Authority Reviews, Oct. 8, 2003, 1 pg.

"Targa TMU-604," PC Authority Reviews, Oct. 8, 2003, 1 pg.

M. Krebs, Cars That Tell You Where to Go, The New York Times, Dec. 15, 1996, section 11, p. 1.

Affinity Labs of Texas, LLC (Plaintiff) v. BMW North America, LLC, et al. (Defendants), Civil Action No. 9:08CV164 and *Affinity Labs of Texas LLC (Plaintiff) v. Alpine Electronics of America Inc., et al.* Stephen Baker, "Listening to Internet Radio—on Your Cell Phone," Business Week, Nov. 3, 1999, pp. 1-2.

Braunstein, J., "Airbag Technology Takes Off," Automotive & Transportation Interiors, Aug. 1996, p. 16.

Adcock, I., "No Longer Square," Automotive & Transportation Interiors, Aug. 1996, pp. 38-40.

Samsung, LG and HTC, Petitioner v. Russell W. White and Kevin R. Imes, Patent Owner, "Corrected Petition for Inter Partes Review of U.S. Pat. No. 7,953,390*," Case IPR2014-00209, U.S. Pat. No. 7,953,390, Dec. 12, 2013, 67 pages.

Samsung, LG and HTC, Petitioner v. Russell W. White and Kevin R. Imes, Patent Owner, "Corrected Petition for Inter Partes Review of

U.S. Pat. No. 7,953,390*," Case IPR2014-00212, U.S. Pat. No. 7,953,390, Dec. 12, 2013, 67 pages.

Samsung Electronics Co., Ltd., Petitioner v. Affinity Labs of Texas, LLC, Patent Owner, "Corrected Petition for Inter Partes Review of U.S. Pat. No. 8,359,007*," Case IPR2014-00407 U.S. Pat. No. 8,359,007, Feb. 14, 2014, 69 pages.

Samsung Electronics Co., Ltd., Petitioner v. Affinity Labs of Texas, LLC, Patent Owner, "Corrected Petition for Inter Partes Review of U.S. Pat. No. 8,359,007*," Case IPR2014-00408 U.S. Pat. No. 8,359,007, Feb. 14, 2014, 69 pages.

Samsung Electronics Co., Ltd.; Samsung Electronics America, Inc.; Samsung Telecommunications America, LLC, Petitioners v. *Affinity Labs of Texas, LLC*, Patent Owner, "Corrected Petition for Inter Partes Review of U.S. Pat. No. 8,532,641*," Case IPR2014-01182 U.S. Pat. No. 8,532,641, Aug. 12, 2014, 69 pages.

Samsung Electronics Co., Ltd.; Samsung Electronics America, Inc.; Samsung Telecommunications America, LLC, Petitioners v. *Affinity Labs of Texas, LLC*, Patent Owner, "Corrected Petition for Inter Partes Review of U.S. Pat. No. 8,532,641*," Case IPR2014-01184 U.S. Pat. No. 8,532,641, Aug. 12, 2014, 69 pages.

Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.; Samsung Telecommunications America, LLC, Petitioners v. *Affinity Labs of Texas, LLC*, Patent Owner "Corrected Petition for Inter Partes Review of U.S. Pat. No. 8,532,641*," Case IPR2014-01184 U.S. Pat. No. 8,532,641, Aug. 12, 2014, 68 pages.

Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc., Petitioners, v. *Affinity Labs of Texas, LLC*, Patent Owner, "Corrected Petition for Inter Partes Review of U.S. Pat. No. 8,532,641*," Case IPR2015-00820 U.S. Pat. No. 8,532,641, Mar. 20, 2015, 71 pages.

Petitioners: Samsung Electronics Co., Ltd.; Samsung Electronics America, Inc.; Inventors: Russell W. White, Kevin R. Imes. "Petition for Inter Partes Review of U.S. Pat. No. 8,532,641," Feb. 27, 2015, 13 pages.

Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., HTC Corp., and HTC America, Inc., Petitioner, v. *Affinity Labs of Texas, LLC*, Patent Owner, "Final Written Decision 35 U.S.C. § 318(a) and 37 C.F.R. § 42.73," Case IPR2014-00209 U.S. Pat. No. 7,953,390 B2, May 13, 2015, 20 pages.

Samsung Electronics Co., Ltd.; Samsung Electronics America, Inc.; HTC Corp., and HTC America, Inc., Petitioners, v. *Affinity Labs of Texas, LLC*, Patent Owner, "Final Written Decision 35 U.S.C. § 318(a) and 37 C.F.R. § 517 42.73," Case IPR2014-004072 U.S. Pat. No. 8,359,007 B2, Jul. 20, 2015, 24 pages.

Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc., Petitioner, v. *Affinity Labs of Texas, LLC*, Patent Owner, "Decision Denying Petitioner's Motion for Joinder 37 C.F.R. § 42.122 Denying Institution of Inter Partes Review 37 C.F.R. § 42.108," Case IPR2015-00820 U.S. Pat. No. 8,532,641 B2, May 15, 2015, 6 pages.

Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc., Petitioner, v. *Affinity Labs of Texas, LLC*, Patent Owner, "Decision Denying Petitioner's Motion for Joinder 37 C.F.R. § 42.122 Denying Institution of Inter Partes Review 37 C.F.R. § 42.108," Case IPR2015-00821 U.S. Pat. No. 8,532,641 B2, May 15, 2015, 6 pages.

Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc., Petitioner, v. *Affinity Labs of Texas, LLC*, Patent Owner, "Final Written Decision 35 U.S.C. § 318 and 37 C.F.R. § 42.73," Case IPR2014-01181 U.S. Pat. No. 8,532,641 B2, Jan. 28, 2016, 65 pages.

Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc., Petitioner, v. *Affinity Labs of Texas, LLC*, Patent Owner, "Final Written Decision 35 U.S.C. § 318 and 37 C.F.R. § 42.73," Case IPR2014-01181 U.S. Pat. No. 8,532,641 B2, Jan. 28, 2016, 65 pages.

U.S. District Court for the Western District of Texas, Affinity Labs of Texas, LLC, Plaintiff v. DirecTV, LLC, DirecTV Digital LLC, et al., Defendants, "Order," Civil Action No. W:15-cv-030, Filed Jul. 7, 2015, 24 pages.

(56)

References Cited

OTHER PUBLICATIONS

U.S. District Court for the Western District of Texas, Affinity Labs of Texas, LLC, Plaintiff v. Amazon.com, Inc.; Amazon Digital Services, Inc., Defendants, "Order," Civil Action No. W:15-cv-029, Filed Sep. 23, 2015, 12 pages.

U.S. District Court for the Western District of Texas, Affinity Labs of Texas, LLC, Plaintiff v. DirecTV, LLC, DirecTV Digital LLC, et al., Defendants, "Report and Recommendation of the United States Magistrate Judge," Civil Action No. 6:15-cv-030-WSS-JCM, Filed Jun. 2, 2015, 32 pages.

U.S. District Court for the Western District of Texas, Affinity Labs of Texas, LLC, Plaintiff v. Amazon.com, Inc.; Amazon Digital Services, Inc., Defendants, "Report and Recommendation of the United States Magistrate Judge," Civil Action No. 6:15-cv-029-WSS-JCM, Filed Jun. 12, 2015, 30 pages.

U.S. Patent and Trademark Office, Final Office Action mailed Nov. 27, 2015, with Reply to Final Office Action filed on Jan. 26, 2016, Advisory Action mailed Mar. 1, 2016, and Request for Continued Examination filed Mar. 23, 2016, in U.S. Appl. No. 14/261,958.

U.S. Patent and Trademark Office, Office Action mailed Nov. 27, 2015, with Reply to Office Action filed on Mar. 28, 2016, in U.S. Appl. No. 14/096,339.

U.S. Patent and Trademark Office, Decision on Appeal mailed Jun. 30, 2015 in Reexamination Control No. 90/010,333, 13 pages.

U.S. Patent and Trademark Office, Decision on Appeal mailed Aug. 26, 2015 in Reexamination Control No. 95/001,223, 12 pages.

U.S. Patent and Trademark Office, Decision on Appeal mailed Aug. 26, 2015 in Reexamination Control No. 90/001,226, 13 pages.

U.S. Patent and Trademark Office, Notice of Intent to Issue Reexamination Certificate mailed May 4, 2015 in Reexamination Control No. 95/001,263, 4 pages.

U.S. Patent and Trademark Office, Reexamination Certificate issued May 26, 2015 in Reexamination Control No. 95/001,263, U.S. Pat. No. 7,486,926 C1.

U.S. Patent and Trademark Office, Decision on Appeal mailed Nov. 25, 2014 in Reexamination Control No. 95/001,782, 10 pages.

U.S. Patent and Trademark Office, Notice of Intent to Issue Reexamination Certificate mailed Feb. 18, 2015 in Reexamination Control No. 95/001,782, 9 pages.

U.S. Patent and Trademark Office, Reexamination Certificate issued May 13, 2015 in Reexamination Control No. 95/001,782, U.S. Pat. No. 7,778,595 C1.

U.S. Patent and Trademark Office, Notice of Intent to Issue Reexamination Certificate mailed May 21, 2014 in Reexamination Control No. 90/011,982, 4 pages.

U.S. Patent and Trademark Office, Reexamination Certificate mailed Jun. 10, 2014 in Reexamination Control No. 90/011,982, U.S. Pat. No. 7,634,228 C1.

U.S. Patent and Trademark Office, Notice of Intent to Issue Reexamination Certificate mailed Jul. 29, 2015 in Reexamination Control No. 95/001,262, 13 pages.

U.S. Patent and Trademark Office, Reexamination Certificate issued Sep. 21, 2015 in Reexamination Control No. 95/001,262, U.S. Pat. No. 7,187,947 C1, 13 pages.

Real Networks, "Real System Production Guide, Release 8," 1998-2000, 260 pages.

* cited by examiner

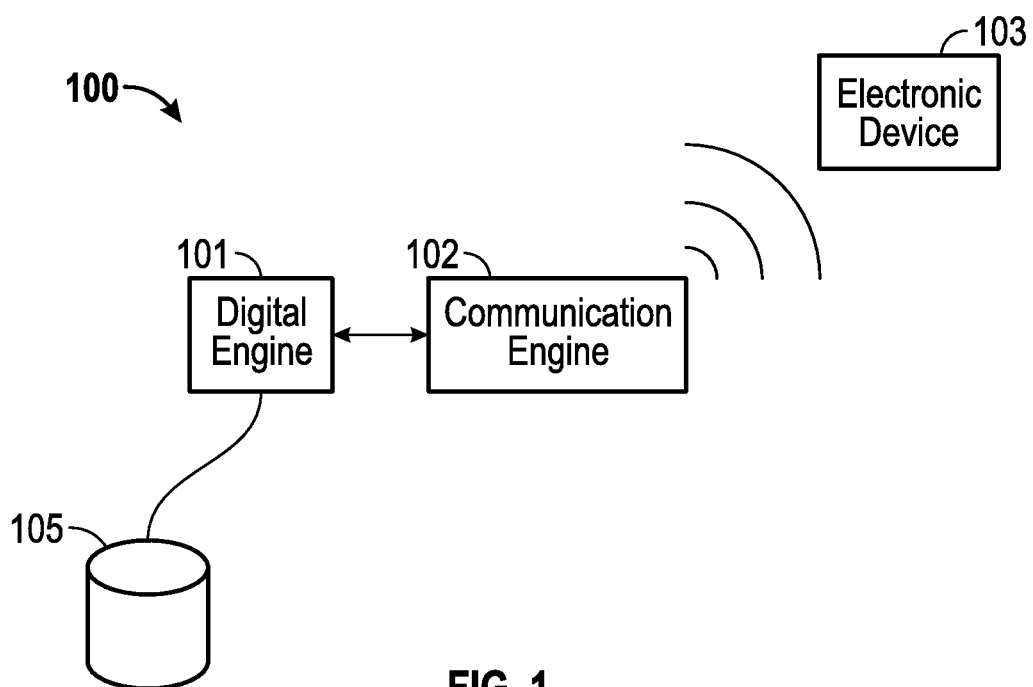


FIG. 1

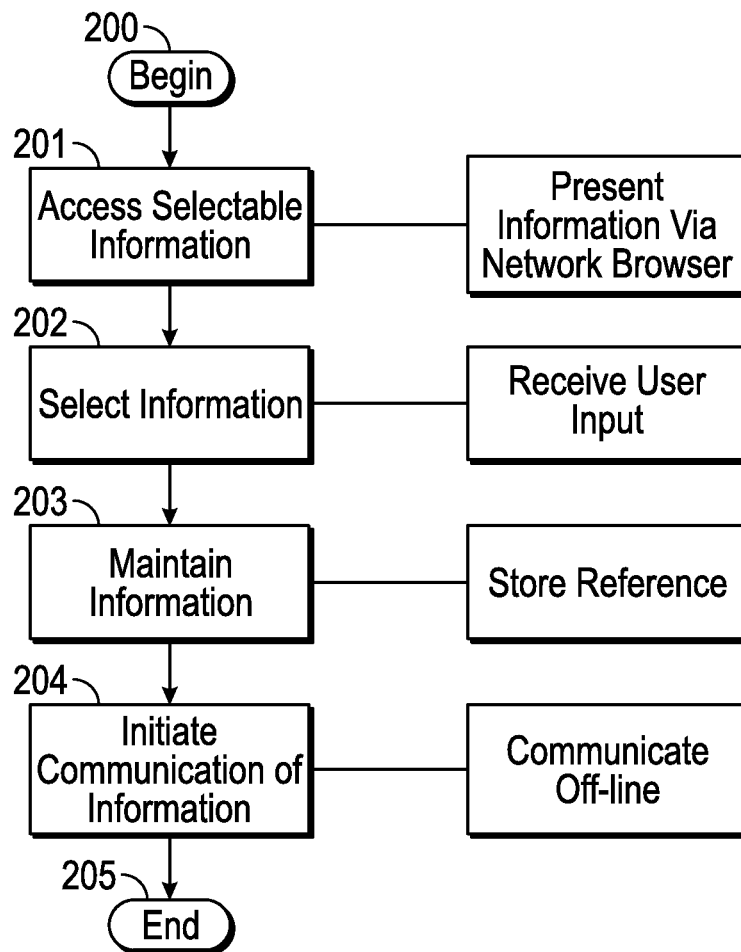


FIG. 2

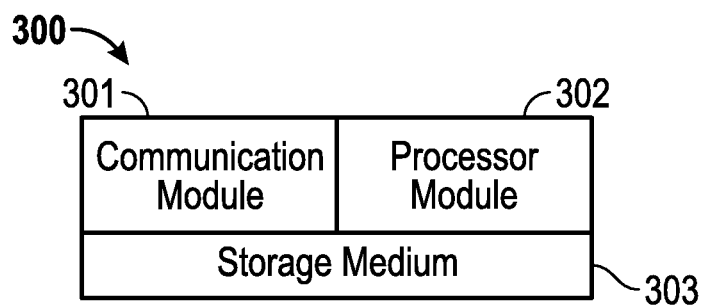


FIG. 3

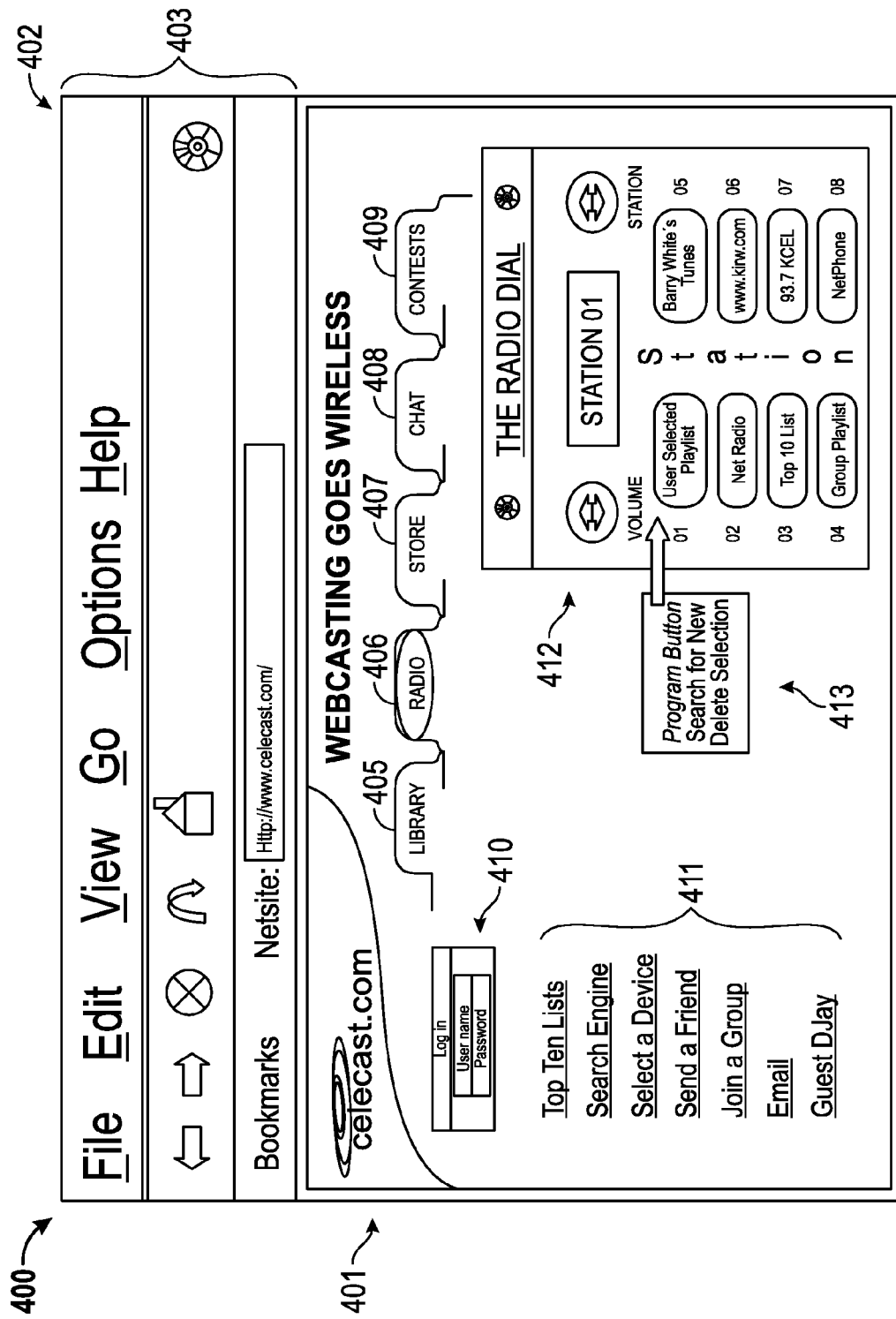


FIG. 4

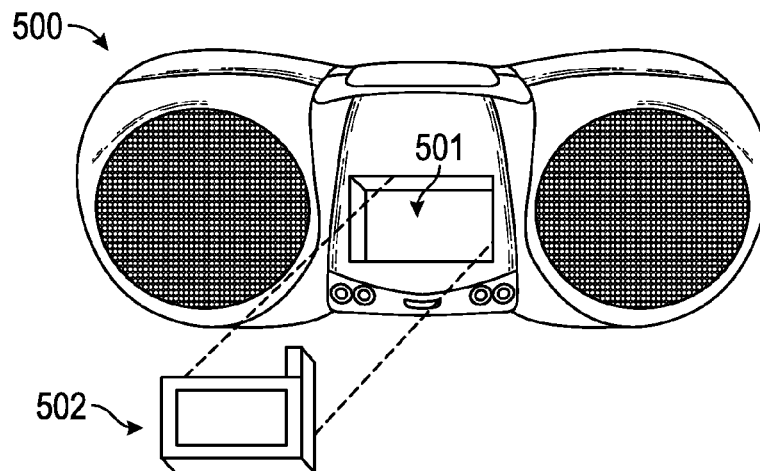


FIG. 5A

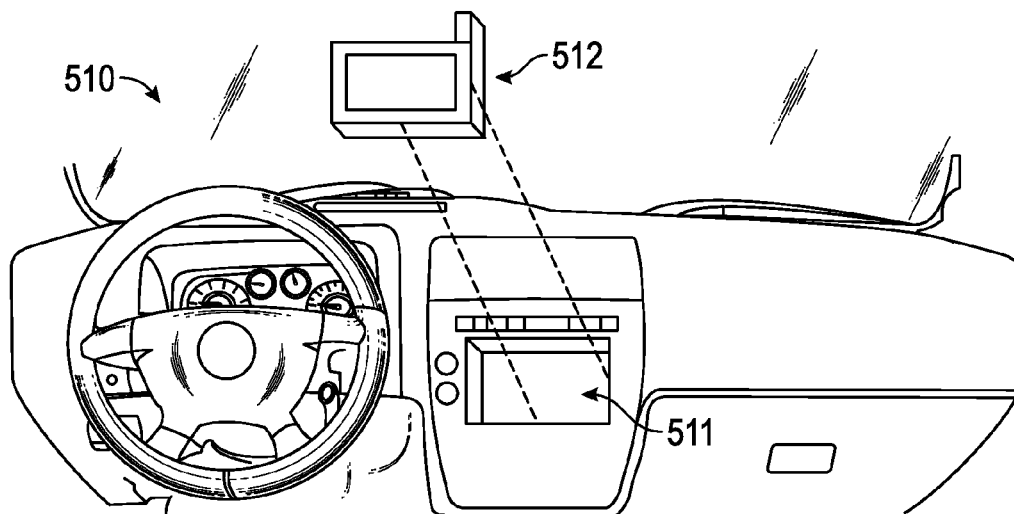
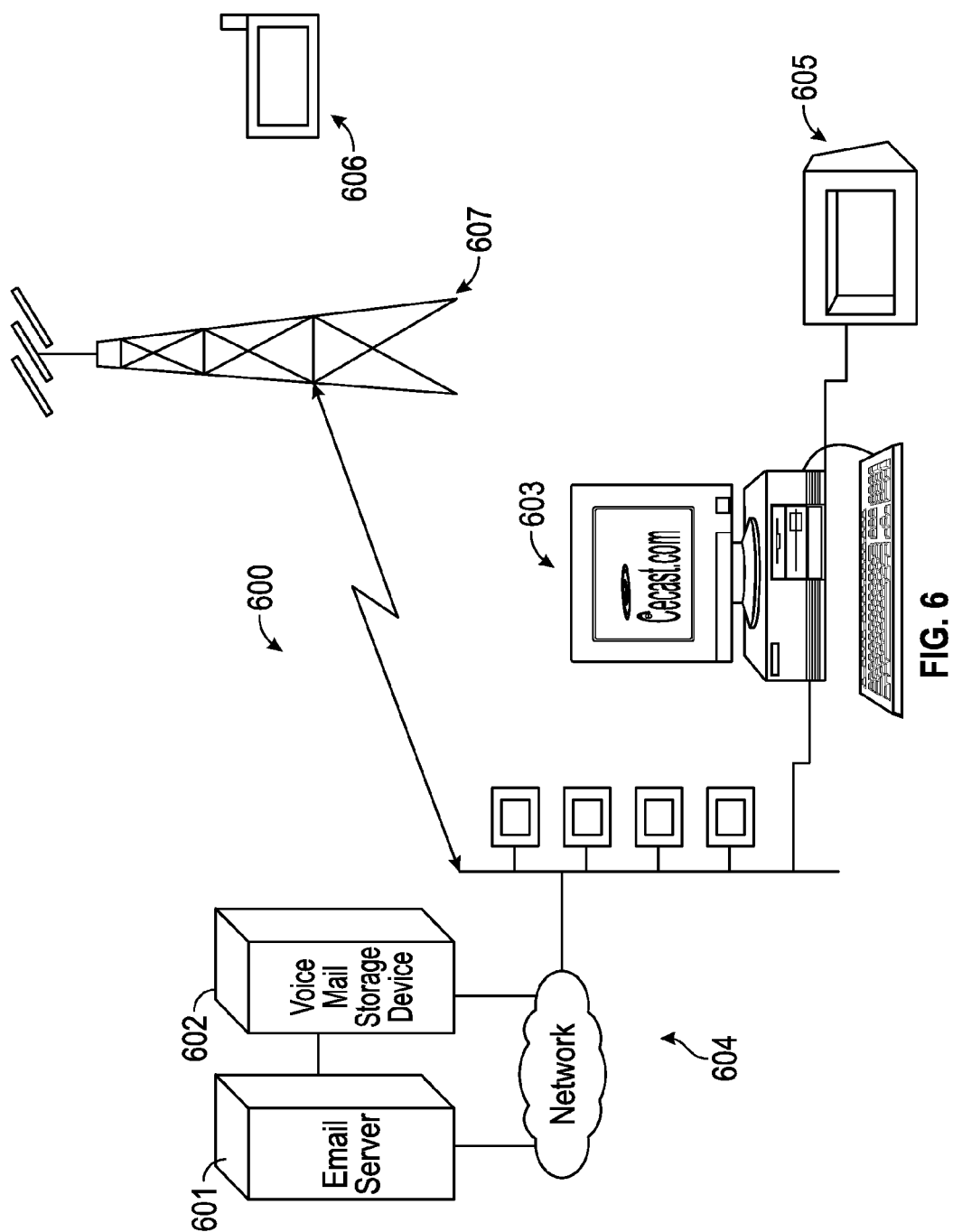


FIG. 5B



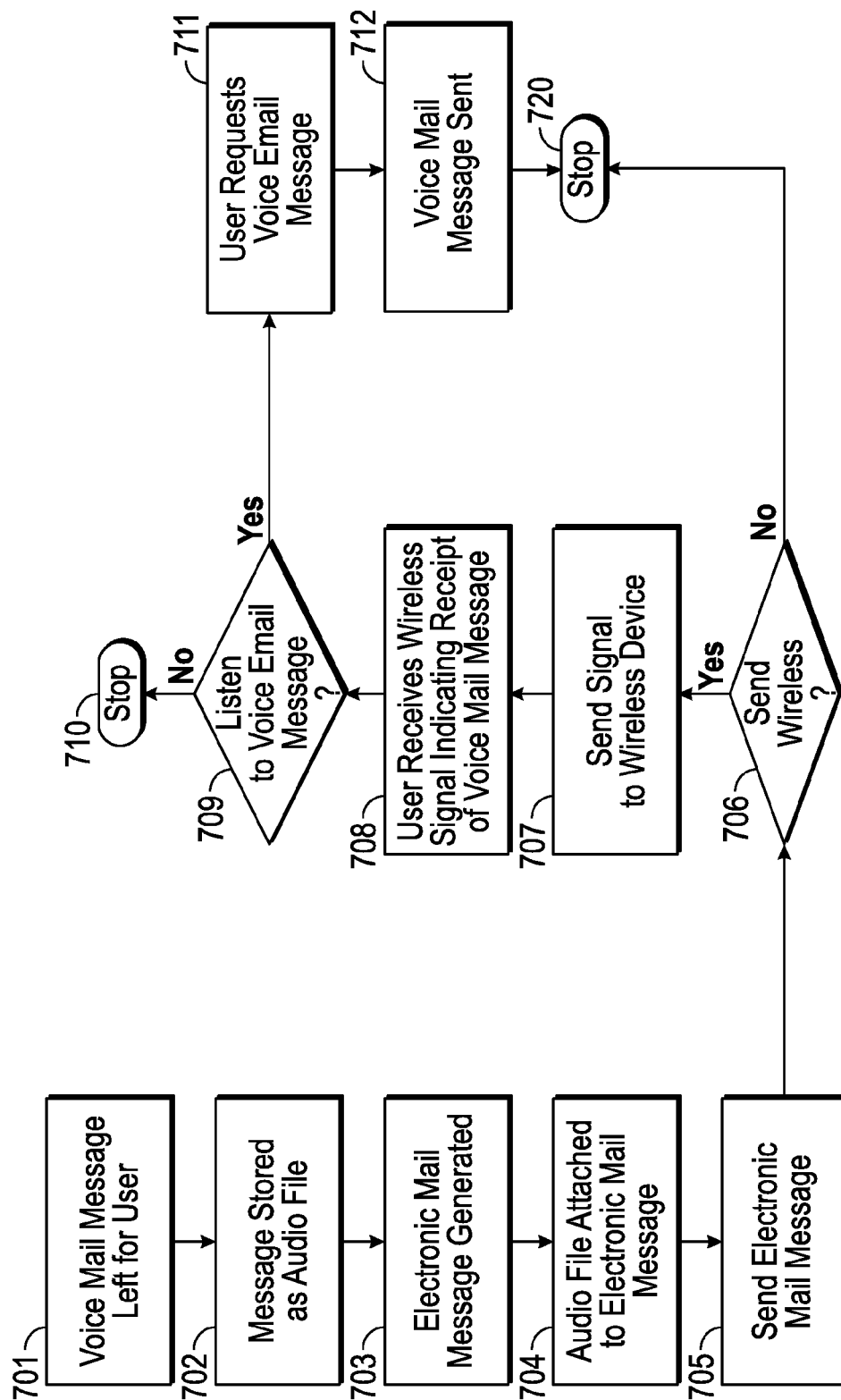
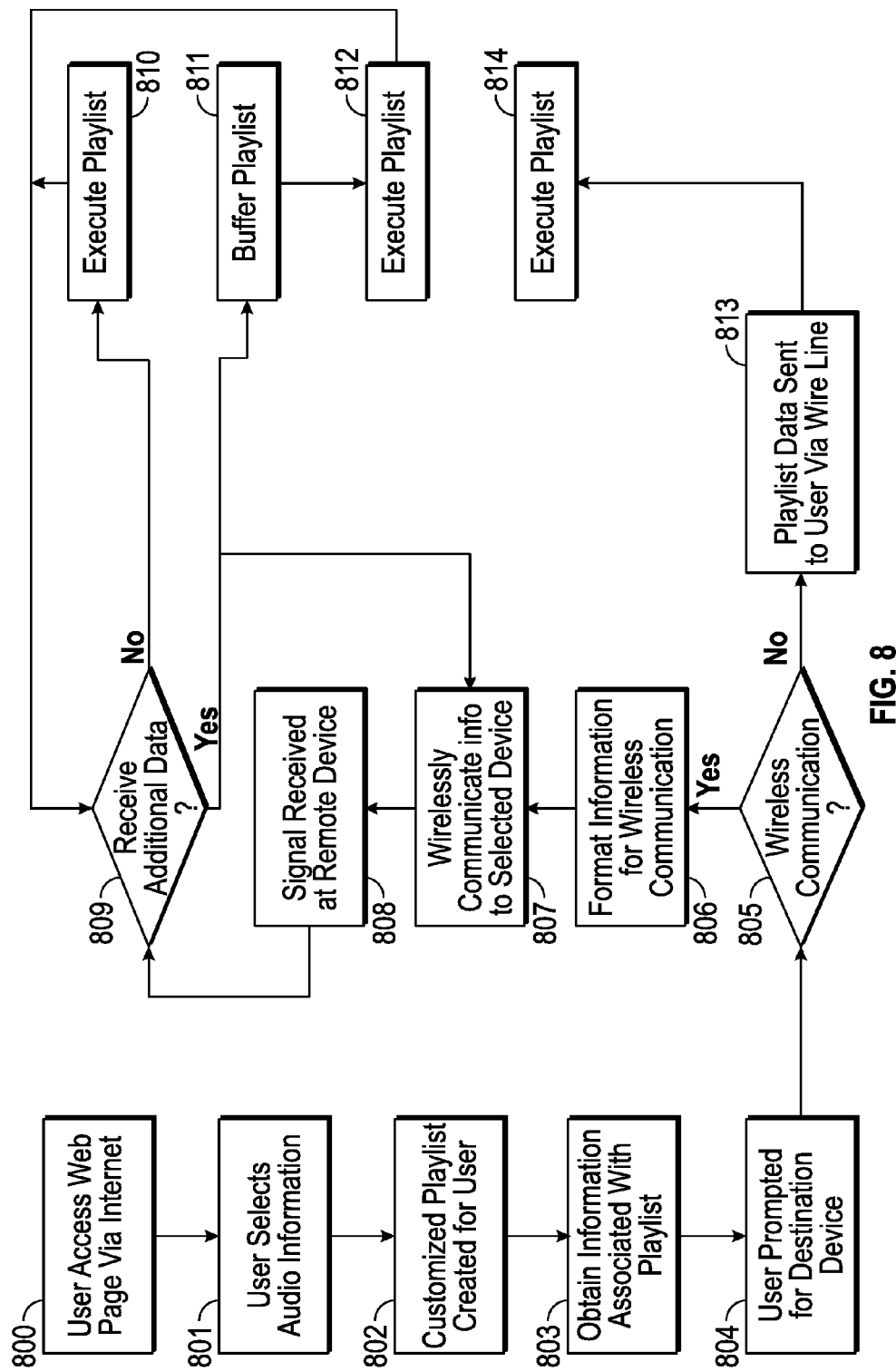


FIG. 7



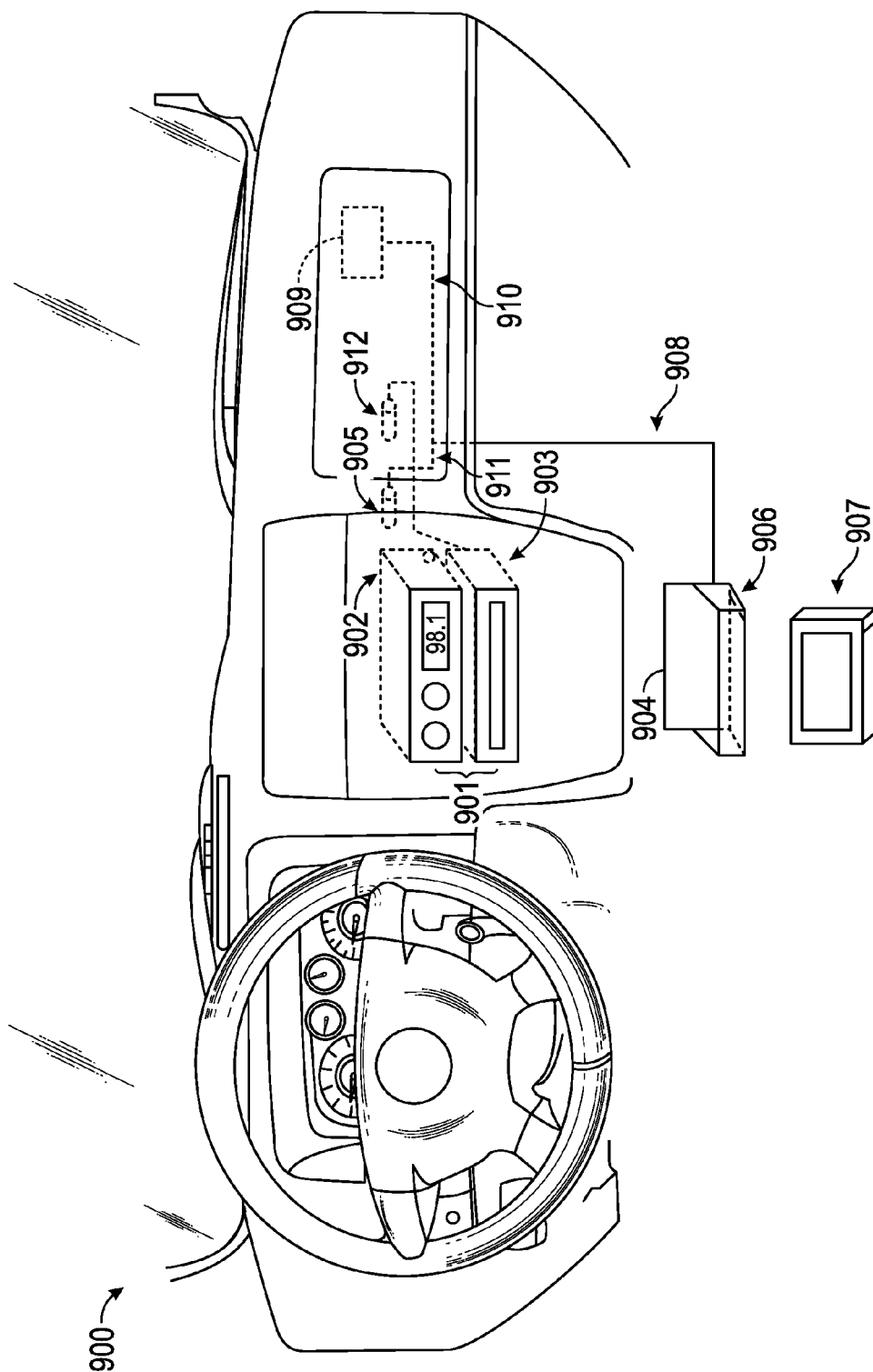


FIG. 9

1

SYSTEM TO COMMUNICATE MEDIA

This application is a continuation of U.S. patent application Ser. No. 14/168,201, filed Jan. 30, 2014, which is a continuation of U.S. patent application Ser. No. 13/854,232, filed Apr. 1, 2013, now U.S. Pat. No. 8,688,085, issued Apr. 1, 2014, which is a continuation of U.S. patent application Ser. No. 13/117,507, filed May 27, 2011, now U.S. Pat. No. 8,521,140, issued Aug. 27, 2013, which is a continuation of U.S. patent application Ser. No. 12/495,190, filed on Jun. 30, 2009, now U.S. Pat. No. 7,953,390, issued on May 31, 2011, which is a continuation of U.S. patent application Ser. No. 12/015,320, filed Jan. 16, 2008, now U.S. Pat. No. 7,778,595, issued on Aug. 17, 2010, which is a continuation of U.S. patent application Ser. No. 10/947,755, filed on Sep. 23, 2004, now U.S. Pat. No. 7,324,833, issued on Jan. 29, 2008, which is a continuation of U.S. patent application Ser. No. 09/537,812, filed on Mar. 28, 2000, now U.S. Pat. No. 7,187,947, issued on Mar. 6, 2007, the disclosures of which are all hereby incorporated herein by reference in their entirety for all purposes.

FIELD OF THE DISCLOSURE

The present disclosure relates to digitally stored content and, more specifically, to a content delivery system and method.

BACKGROUND

The first commercial radio stations in the United States began operation around 1920. Today, there may be as many as 12,000 radio stations in the United States programming in several distinct formats. When broadcasting their respective signals, these radio stations often use an analog signal, which may be modulated based on frequency or amplitude. Frequency modulated (FM) radio appears to be the dominant entertainment medium while amplitude modulated (AM) radio seems to be a popular outlet for news and information.

Unfortunately, analog radio may be unable to provide the sound quality and consistency that radio listeners desire. As such, several broadcasting related companies have begun to consider a movement to digital radio. Unlike analog radio reception, digital radio reception may be able to provide compact disk (CD) quality sound while remaining virtually immune to interference. Being immune to interference may result in reducing static growls or “multipath” echoes, echoes caused by signal reflections off buildings or topographical features.

Some countries, like Canada and many European countries, may choose to have digital radio operate in a single digital radio band such as the L-band between 1452-1492 megahertz (MHz). This band would allow the reception of both terrestrially and satellite-originated signals. By comparison, FM radio typically operates between 88 and 108 MHz while AM radio typically operates between 0.525 and 1.705 MHz. Neither of these bands allows for easy transmission via satellite.

Canada proposed using the L-Band for digital radio as early as 1992. Several countries throughout the world have since agreed to use the L-Band for digital radio with one notable exception. It appears the United States has chosen not to operate its digital radio within the L-Band. In the United States, the L-Band may already be committed for military uses. Apparently, the United States plans to adopt a system called in-band on-channel, or IBOC, which fits within the AM and FM frequencies.

2

IBOC technology may offer some advantages over L-Band transmissions. For example, there may be no need for new spectrum allocations. There may be backward and forward compatibility with existing AM and FM systems on both the transmitter and receiver sides, and there may be a low-investment upgrade to digital systems. Unfortunately, a workable IBOC solution is yet to be seen though technology may someday make IBOC digital radio commercially possible.

Even if an IBOC solution becomes commercially available in the United States, IBOC digital radio may suffer from several shortcomings. For example, there may global standardization problems. Though the United States favors IBOC, the European and Canadian communities seem to favor L-Band making the establishment of a global standard difficult.

BRIEF DESCRIPTION OF THE DRAWINGS

A more complete understanding of the present embodiments and advantages thereof may be acquired by referring to the following description taken in conjunction with the accompanying drawings, in which like reference numbers indicate like features, and wherein:

FIG. 1 depicts a general system for wirelessly communicating selective information to an electronic device in accordance with one aspect of the present invention;

FIG. 2 illustrates a block diagram of a method of wirelessly communicating selected information to an electronic device;

FIG. 3 illustrates an electronic device operable to receive selected audio information in accordance with the teachings of the present invention;

FIG. 4 illustrates a graphical user interface (GUI) for displaying selectable audio information according to one aspect of the present invention;

FIG. 5A illustrates a portable radio system having a mount for an electronic device according to one embodiment of the present invention;

FIG. 5B illustrates an automobile console having a mount for coupling an electronic device according to one aspect of the present invention;

FIG. 6 illustrates a block diagram of a system for communicating voice mail messages using email according to one embodiment of the present invention;

FIG. 7 illustrates a flow chart for providing voice email messages according to one embodiment of the present invention;

FIG. 8 illustrates a flow diagram of a method for providing selected audio information to an electronic device according to one embodiment of the present invention; and

FIG. 9 illustrates an automobile console having a mount for an electronic device according to one embodiment of the present invention.

DETAILED DESCRIPTION

The conceptual groundwork for the present invention includes wirelessly communicating selective information to an electronic device. According to one aspect, a user may interact with the Internet to select information, such as audio information, and wirelessly communicate the selected information to an electronic device. The electronic device receives the information via a wireless communications network and processes the information accordingly. In a particularized form, a user may select information from an Internet website operable to allow selectivity of audio infor-

mation such as songs, on-line radio stations, on-line broadcasts, streaming audio, or other selectable information. Upon selecting the audio information, information or data associated with the selected audio information is wirelessly communicated to an electronic device. The electronic device may then be used to process the selected audio information. In this manner, a user may receive selective audio information via a wireless electronic device.

In one form, the electronic device may be operable to communicate with an individual's automobile audio system. A user may select audio information utilizing a personal computer with access to a website operable to display selectable audio information. The selected audio information may then be wirelessly communicated to the electronic device associated with an automobile's audio system. Therefore, upon receiving the selected audio information, a user may access and play the received audio information utilizing the electronic device in association with the automobile's audio system.

The present invention is not limited to communicating only audio information. One skilled in the art can appreciate that other types of information, such as video, textual, etc. may be communicated utilizing the systems and methods disclosed herein without departing from the spirit and scope of the present invention. Additionally, it will be understood that information may be formatted in a plurality of ways at different phases of communication without losing the underlying content of the selected information. For example, an audio file may be formatted, segmented, compressed, modified, etc. for the purpose of providing or communicating the audio information. Therefore, the term "audio information" or "information" is used in a general sense to relate to audio information in all phases of communication.

FIG. 1 depicts a general system for wirelessly communicating selective information to an electronic device in accordance with one aspect of the present invention. The system, illustrated generally at **100**, includes a digital engine **101** coupled to a communications engine **102**. Communications engine **102** is remotely coupled to an electronic device **103**. Digital engine **101** may be directly or indirectly coupled to storage device **105** operable to store information. Digital engine **101** maintains information or data associated with selected information in a digital format. The information may be stored within storage device **105** or other storage devices operable to maintain data or information associated with the selected information.

Communications engine **102** is communicatively coupled to digital engine **101** and operable to wirelessly communicate the selected information to electronic device **103**. During operation, audio information may be selected by a user utilizing a personal computer or other devices operable to communicate with an information network. Digital engine **101** is operable to maintain information associated with the selected audio information. For example, the information could be several songs or titles configured as an audio file and formatted in a digital format such as an MP3 file, wave file, etc. The maintained information may also be a reference to a network location where an audio file may be stored, a network location where a network broadcast of audio information may be located, etc. or other network locations having information associated with the selected audio information. Therefore, digital engine **101** may maintain a plurality of different types of information or data associated with the selected audio information.

System **100**, utilizing communication engine **102**, may wirelessly communicate data or information associated with the selected audio information to electronic device **103**

thereby providing wireless communication of selected information to an electronic device operable to receive wireless communications. In one embodiment, digital engine **101** may be used in association with an Internet website configured to provide access to selectable information. The Internet website operably associated with digital engine **101** allows a user to select information to be wirelessly communicated to electronic device **101** utilizing a network environment. The Internet website may include several different types of information related to audio information.

FIG. 4, described in greater detail below, illustrates one embodiment of providing an Internet website for displaying selectable audio information. For example, the Internet website may include music and/or artist search engines, playlists, top 10 charts, artists by genre, and other information associated with audio information. A user may select information associated with the audio information and digital engine **101** can maintain the information or data associated with the selected information in a digital format. Communications engine **102** coupled to digital engine **101** may wirelessly communicate data associated with the selected audio information to electronic device **103**. Therefore, a user may access and select audio information via an Internet website and wirelessly communicate the data to an electronic device. As such, system **100** advantageously allows for wireless communication of selected audio information to electronic devices that may be remotely located from a conventional terrestrial communication network.

Electronic device **105** may be configured in a plurality of ways for receiving wireless communication of selected audio information. In one embodiment, electronic device **105** may be operable as a component configured to receive a cellular signal comprising the selected information communicated by the communication engine. For example, a device having a cellular modem may be operable to receive the information at specified intervals. Upon receiving the information the electronic device may process the received information. Electronic devices are described in more detail below and may include a network radio, a modular device, an audio system, a personal digital assistant (PDA), a cellular phone, or other electronic devices operable to receive information wirelessly communicated by communication engine **102**.

Communications engine **102** may be operable to wirelessly communicate selected information to electronic device **103** in a plurality of ways. The present invention advantageously allows for several different embodiments of wirelessly communicating selected audio information to electronic device **103** and is not limited to any specific configuration described below. Several different types or combinations of wireless communication may be realized by the present invention. Communications engine **102** may be operable to wirelessly communicate the selected information from an information network, such as the Internet, to an electronic device operable to receive wireless communications. In one embodiment, communications engine **102** may comprise a conduit to interface information with a wireless communication network. The conduit may configure the information located within the information network into a format operable to be transmitted via wireless communication.

For example, a wireless device may be operable to receive packets of information having a specific size and in a specific format. In such an embodiment, communications engine **102** could format the information into a desirable format for wirelessly communicating the information to electronic device **103**. Several types of wireless communi-

cation may be used by communications engine **102** to communicate the selected information to an electronic device. Communications networks such as GSM, Digital Satellite communication, SB, Radio bands, DRC, Super-DRC or other systems or types of transmission such as TDMA, CDMA, spread spectrum, etc. or frequencies such as between about 1.7 GHz and 2.0 GHz may be realized by the present invention for communicating information or data representing the selected audio information to electronic device **103**.

In one embodiment, the selective information may be communicated using a digital broadcast signal. Digital broadcast includes providing information via a signal such as AM, FM, and the like. Digital information may be included or encoded as a sub-carrier within the broadcast signal and received by electronic device **103**. A digital sub-carrier may include a selective bandwidth of frequencies for a specific radio station (i.e., 6 MHz for FM). The selective information may be wirelessly communicated to electronic device **103** utilizing a communication engine **102** operable to communicate the selective information via a digital FM signal. In this manner, selective information may be communicated within digital FM sub-carriers to an electronic device operable to receive the information. For example, a user may subscribe to communicate the information via an FM sub-carrier and receive the selective data through wireless communication via a specified FM sub-carrier.

In one embodiment, the selected information may be formatted and transmitted to achieve a desirable transmission rate. For example, conventional systems may transmit information at a speed of 10 kilobits per second. Therefore, for 1 megabyte of information to be communicated to an electronic device, a transmission time of approximately 800 seconds may be required. The present invention may allow for a relative increase in transmission speed by removing the requirement that information be communicated asynchronously to an electronic device. For example, conventional wireless communication utilizes a specified frequency to communicate information in two directions (i.e., cellular phones). As such, information is communicated across a channel in an asynchronous manner to provide a continuous audio signal to the recipient.

The present invention advantageously allows for signals to be transmitted to an electronic device in a less than asynchronous manner. For example, if a user selected a song to be wirelessly communicated to an electronic device, system **100** could communicate the information in a less than asynchronous manner allowing the selected information to be transmitted efficiently thereby decreasing the overall download time for the selected audio information. In one embodiment, the selected information may be compressed and transmitted across the same frequency but at different phases thereby allowing plural signals having different phases to be wirelessly communicated to an electronic device. Therefore, the electronic device may be operable to receive multiple phased signals and process the selective information accordingly.

In one embodiment, the information may be wirelessly communicated at a relatively slow transmission rate. For example, a user may schedule when the selected audio information may be used by electronic device **103**. The user may select several different audio tracks or songs to be transmitted to an electronic device associated with the user's vehicle such that the user can listen to the user selected audio information during the drive home at the end of a workday. Therefore, it may be desirable to utilize a slower transfer

speed due to the extended amount of time available prior to actual use of the selected audio information. In this manner, communications networks having less or slower transfer rates may be used to wirelessly communicate the selected audio information to the electronic device.

In another embodiment, high-speed wireless communication networks may be used to communicate the selected audio information. For example, a user may want to listen to an Internet broadcast of an Internet radio station. Therefore, high-speed communication may be required to wirelessly communicate or stream the selected audio information to an electronic device. In another embodiment, a hybrid of wireless communication rates may be deployed depending on the requirements of the selected audio information and/or the electronic device. For example, the selected audio information may first be transmitted to the electronic device via high-speed communication until enough information has been wirelessly communicated and buffered into a memory device operably associated with the electronic device. Upon communication of a certain percentage of the selected audio information, slower communication speeds may then be used to communicate additional selected audio information.

Therefore, system **100** may be configured in a plurality of ways to communicate selected information to electronic device **103**. Digital engine **101** may be used to maintain data or information associated with the selected information and communication engine **102**, communicatively coupled to digital engine **101**, may wirelessly communicate selected information to electronic device **103**.

FIG. 2 illustrates a block diagram of a method of wirelessly communicating selected information to an electronic device. The method may be used in association with the system illustrated in FIG. 1 or other systems operable to utilize the method of FIG. 2.

The method begins generally at step **200**. At step **201**, selectable audio information may be accessed utilizing a network communications device. For example, selectable audio information may be displayed at an Internet website accessible by a personal computer. In another embodiment, the selectable information may be accessed utilizing a wireless communications device such as, a cellular phone, a PDA device, or other devices operable to provide access to the selectable audio information.

Upon accessing the selectable information, the method proceeds to step **202** where a user can identify or select audio information to be wirelessly communicated to an electronic device. For example, a user may select an entire album to be wirelessly communicated to a PDA device.

Upon the user selecting the audio information, the method proceeds to step **203** where the method maintains information associated with the selected information. In one embodiment, the information may be an audio file, such as a wave file, and MP3 file, etc. representative of the selected audio information. In another embodiment, a network location that comprises a file representing the selected information may be maintained. Another example may include a network location of a network broadcast of audio information. Therefore, the method at step **203** may maintain several different types of information associated with the selected audio information.

Upon maintaining information or data associated with the selected information, the method proceeds to step **204** where the method wirelessly communicates information associated with the selected information to an electronic device. For example, if an audio file associated with the selected audio information was maintained, the method would communicate the audio file to the electronic device. In another

embodiment, a link or network address broadcasting the selected audio information may be accessed and, at step 204, wirelessly communicated to an electronic device. In another embodiment, a combination of different types of audio information may be wirelessly communicated to an electronic device. Upon transmitting the selected audio information, the method proceeds to step 205 where the method ends.

Selected audio information may be communicated in a plurality of ways as described above including communicating via a cellular communications network to an electronic device operable to receive cellularly-communicated signals. For example, the information may be selected from a website operable to display selectable information. Upon selecting the audio information, a data file representing the selected audio information may be wirelessly communicated to an electronic device thereby allowing a user to select audio information via the Internet and wirelessly communicate the information to an electronic device.

In some embodiments, the wireless communication to an electronic device may occur in an off-line environment. For example, a user may go "on-line" to access a website and select information and then go "off-line" or end the browsing session. The wireless communication may then occur while the user is off-line thereby removing the confines of using an active or on-line browsing environment (i.e. Internet radio broadcast, streaming audio, etc.) for accessing selected information. Therefore, the method of FIG. 2 allows for information, such as audio information, to be communicated from a network location such as a web site, to an electronic device "via" wireless communication. The present invention advantageously allows users to access and download information accessible by a network location to an electronic device operable to receive wireless communications thereby reducing the need for land lines, terrestrial communication networks, etc. for communicating selective information.

In one embodiment, the method of FIG. 2 may be deployed in association with an Internet website operable to display selectable links for downloading information. The information may include audio information such as MP3s, streaming audio, streaming. Internet broadcasts, etc. are selectable by a user and operable to be wirelessly communicated to an electronic device. By providing a user with a website of selectable audio information operable to be wirelessly communicated to an electronic device, a user may customize information communicated to an electronic device. In one embodiment, a user may communicate information to an electronic device that may not be owned by the user. For example the method of FIG. 2 could be modified to allow a user to wirelessly communicate audio information to a plurality of electronic devices that may or may not be owned by the user.

FIG. 3 illustrates an electronic device operable to receive selected audio information in accordance with the teachings of the present invention. Electronic device 300 includes a communication module 301 such as a transceiver coupled to storage medium 303 such as a high speed buffer, programmable memory, or other devices operable to store information. Electronic device 300 may also include processor 302 operably associated with communication module 301 and storage medium 303. Processor 302 may be operable to process wirelessly communicated selected information and in one embodiment may be integrated as part of communication module 301 of storage medium 303. In the same manner, as larger scale integration of electronic devices proliferate, communication module 301, processor 302, and

storage medium 303 may be integrated into one communication component or device operable as electronic device 300.

Processor 302 may be operable using software that may be stored within storage medium 303. In one embodiment, software upgrades may be communicated to electronic device 300 via wireless communication allowing for efficient system upgrades for electronic device 300. Storage medium 303 may include one or several different types of storage devices. For example, storage medium 303 may include programmable gate arrays, ROM devices, RAM devices, EEPROMs, minidisks or other memory devices operable to store information.

During use, electronic device 300 receives wireless communications of selective information. The information may be transmitted via a wireless communications network and received by electronic device 300 via transceiver 301. Transceiver 301 may be operable to convert the received wireless communication signal into a desirable format and store the received information within storage medium 303. The received information may then be processed by electronic device 300.

In one embodiment, electronic device 300 may be operable as an audio player configured to play digital representations of music. For example, electronic device 300 may also include an MP3 player operable to process the received information into an audio signal. Therefore, electronic device 300 may be used to receive wirelessly communicated MP3 audio files and play these files using an MP3 player when desired. In another embodiment, electronic device 300 may be configured as a PDA wherein the PDA includes a web browser operable to wirelessly communicate with the Internet. The PDA device may include a user interface allowing a user to select information to be wirelessly communicated to electronic device 300.

By providing a website of selectable information, the PDA devices may provide an efficient embodiment for electronic device 300 in that it allows a user to access and select information using a wireless communication network and receive the selected information using the same or different wireless communication network. In yet another embodiment, electronic device 300 may be configured as a component operable to receive selective information via wireless communication and communicate the information to a second electronic device such as an automobile sound system, home stereo, etc.

For example, electronic device 300 may utilize transceiver 301 to receive wirelessly communicated information. Electronic device 300 may then be coupled to an automobile sound system using an interface and communicate the received information to the automobile sound system. In this manner, electronic device 300 may be used to provide the automobile sound system with audio files received via wireless communication.

In another embodiment, electronic device 300 may be operable to communicate the received audio information to an audio system via a localized communications-signaling network. One such network may include utilizing "Bluetooth" communication standard, used to provide communication between electronic devices in a proximal setting. In one embodiment, electronic device 300 may be integrated into an audio component such as a radio receiver. Electronic device 300 integrated into an audio component may be configured to process digital audio files wirelessly communicated to an audio component. In another embodiment, electronic device 300 may be operable to communicate with an analog receiver at a predetermined frequency.

For example, a specific frequency may be selected (i.e., 93.7 MHz) for communicating the wireless received selected information from electronic device **300** to a localized audio system. Electronic device **300** communication of the wirelessly received information allows a conventional receiver to receive the selected audio information. In one embodiment, the conventional receiver may be configured to receive a digital sub-carrier, on-carrier, or other within a specified frequency. Therefore, electronic device **300** may be operable to locally transmit the signal at a specific frequency thereby allowing the conventional receiver to receive the information. In another embodiment, electronic device **300** may be operable to scan plural bandwidths to receive the selective information. For example, transceiver **301** may be operable to receive selective information across several frequencies and process the received information accordingly.

In another embodiment, electronic device **300** may be operable to scan several frequencies to obtain the desirable information. For example, a user may select several Internet broadcasts comprised of streaming audio information. Therefore, the information may be transmitted across several wireless frequencies receivable by electronic device **300**. Electronic device **300** may then be operable to allow a user to scan wirelessly communicated Internet broadcast signals thereby providing a user selected virtual broadcast radio network. In another embodiment, electronic device **300** may include a user interface operable to communicate with an Internet website operable to display selectable audio information. The Internet website may be configured as a user-preferred environment displaying a users selected audio information. Internet broadcast selections, streaming audio selections, etc.

With a display device for displaying a Website having selectable information, electronic device **300** may allow a user to select audio information via a user interface and receive the selected information via wireless communication thereby providing a customizable WebRadio device for the user. In another embodiment, electronic device **300** may be a modular device configured to be coupled to, for example, a portion of a cars interior. For example, electronic device **300** may be mounted to a portion of a car's console thereby providing a removably coupled electronic device operable to wirelessly receive selected audio information. As a removable device, electronic device **300** may also be coupled to a home audio system, a portable radio system or other systems thereby providing a versatile electronic device operable to receive wirelessly communicated selected audio information.

In another embodiment, electronic device **300** may be operable as a PDA and/or a cellular phone that may be mounted to an automobile's console. Electronic device **300** may then integrate with a user's automobile to provide an all-encompassing communications device. For example, electronic device **300** configured as a PDA and cellular phone may allow for communication with a user's email account, voice mail account, the Internet, as well as allowing for the receipt of selected audio information via wireless communication. Electronic device **300** may be operable in a hands-free mode allowing a user to maintain safe driving fundamentals. During use, electronic device **300** may be processing selective audio information for communicating with an automobile audio system and may further be operating to receive incoming cellular calls.

Electronic device **300** may be set-up by the user to pause the music being played and allow the received cellular call to be communicated either via an independent speaker or

utilizing the automobiles "audio system." Additionally, electronic device **300** may be operable to adjust the listening level of an automobile's audio system, it may play received voice mail messages, allow a user to view the Internet, etc. In one embodiment, electronic device **300** may be operable as a dual mode electronic device capable of receiving both digital and analog wireless communication signals. In this manner, electronic devices may efficiently utilize available bandwidth for receiving selected information from a communications engine. For example, transceiver **301** may be a wireless communications modem operable to receive digital or analog signals.

FIG. **4** illustrates a graphical user interface (GUI) for displaying selectable audio information according to one aspect of the present invention. The GUI may be operable with a computer system, cellular device, PDA, or other electronic devices or systems operable to display the GUI of FIG. **4**. The GUI, shown generally at **400**, may be displayed using a conventional web browser **402** such as Microsoft® Internet Explorer, a WAP browser, or other browsers operable to display the audio information. Browser **402** includes browser functions, shown collectively at **403**, for navigating a network such as the Internet or an intranet. Homepage **401** may be displayed using browser **402** and may include several functions, features, information, etc. related to audio information. Home page **401** may be developed using several different types of programming (i.e., HTML, XML, Java, etc.) used to developing a network location or website.

The present invention is not limited to any one specific type of software and may be realized in plurality of ways as can be appreciated by those skilled in the art. Homepage **401** may also include login region **410** allowing a user to log into homepage **401** and display a user-preferred environment. For example, a user may want Radio Dial **412** to appear when a user logs into homepage **401**. In another embodiment, a user may want to view a current playlist selected by the user or the status of wirelessly communicated playlist. A user may also provide demographic information allowing advertisers to access the demographic information and provide advertisements based upon the demographic information. For example, an advertiser may want to target Hispanic females in the 21-25 year old age group.

Through providing demographic information to advertisers, when a user logs into homepage **401** selective advertising can be "targeted" for a group of users. Homepage **401** may also include several tabs for efficiently navigating homepage **401**. Library tab **405** may be provided to allow a user to browse available audio information that may be presented by title, genre, artist, decade, culture, etc. Store tab **407** may also be provided for locating items available for purchase such as CDs, PDA devices, MP3 players, wireless communication hardware, interfaces, software or other types of products that may be purchased while on-line. Chat tab **408** may also be provided allowing a user to chat with other users of home page **401**. For example, a guest musical artist may be available to chat with visitors of home page **401** via a chat page associated with chat tab **408**. Home page **401** may also include contest tab **409** for displaying current contests, prizes, and/or winners.

Radio tab **406** may also be provided for displaying audio information. For example, radio tab **406** may display a collective menu **411** of selectable functions or features associated with audio information. Top ten lists may be provided to a user based on several different billboard polls or genres. A search engine may be provided allowing a user to search for a specific type of audio information such as an artist, song title, and genre. Internet radio station, etc. In one

11

embodiment, a user may input the lyrics to a song within the search engine. As such, the search engine may locate several different songs having the desirable lyrics and allow a user to select the search results. A user may also use a select a device feature that allows a user to select a destination device for communicating selected audio information. For example, a user may want to communicate a playlist to several different devices such as a PDA, a home computer system, a work computer system, etc.

As such, a user can communicate selective information to several devices without having to download the information separately for each device. A send a friend link may also be provided allowing a user to send selective audio information to a friend's electronic device. A user may also join a group comprised of individuals that select a certain genre of music to be communicated to the user's electronic device. For example, a user may want to join a group that plays only 50s swing music. As such, the user could communicate the group's selected songs to the user's electronic device. A user may also utilize an email account provided by homepage 401 allowing a user to correspond with others via email. A user may also access a list of guest DJs that may provide playlists of songs chosen by the guest DJ and selectable by a user.

In one embodiment, a user's radio dial 412 may be provided when a registered user logs into homepage 401. As such, radio dial 412 may include several functional buttons similar to conventional systems such as a volume control and a station control. However, radio dial 412 surpasses the limitations of conventional systems through providing a programmable radio dial of user customized audio information. Radio dial 412 includes several stations that may be programmed using program interface 413. The preset stations may include several different types of user customized preset information such as user selected playlists, Internet broadcast stations, top lists, group playlists, artist-selected lists, on-line radio station, conventional radio stations. Internet phone, cellular phone, etc. and other functions, features, or information associated with audio information.

Radio dial 412 may also be displayed as a separate user interface and in some embodiments, does not require a "browsing" environment to view radio dial 412. For example, an electronic device, such as a PDA, having a display may graphically present radio dial 412 to a user. One example may be using electronic device in association with an automobile audio system. Electronic device may display radio dial 412 and may allow a user to navigate, modify, select, adjust volume, access daytimer, access phone lists, etc. or perform other functions while the electronic device is used in association with an automobile sound system. Therefore, radio dial 412 may be operable as an application for use with several different types of electronic devices (i.e., computer systems, portable computing devices, cellular phones, etc.) operable to display radio dial 412 and in some embodiments may be wirelessly communicated to an electronic device.

In another embodiment, homepage 401 may allow a user to select when to download the information to an electronic device. For example, a user may want to listen to a certain genre of music at a specific time of day thereby allowing a user to select the information. As such, a user may select a different playlist for every day of the week thereby allowing a user to listen to different songs on different days of the week. The user can further identify when the selected playlist should be available for listening. For example, if a user wanted to listen to "playlist #1" on Monday morning during the drive into work between 8:00 am and 9:00 am, the

12

user would enter the time and the day "playlist #1" would be available for listening. In this manner, the playlist may be communicated to the electronic device thereby allowing a user to listen to selective audio information at a desirable time.

FIG. 5A illustrates a portable radio system having a mount for an electronic device according to one embodiment of the present invention. Portable radio 500 includes a mount 501 operable to receive electronic device 502. Mount 501 may include a connector operable to provide communications and power to electronic device 502. During use, electronic device 502 when mounted within portable radio 500 communicates with portable radio to provide remotely received selective audio information. In one embodiment, electronic device 502 may include a user interface allowing a user to access the Internet. Therefore, selective audio information located on the Internet may be accessed by the user and remotely communicated to electronic device 502 coupled to portable radio 500.

In another embodiment, portable radio 500 may include memory operably located within for storing downloaded information. For example, portable radio 500 may include 32 MB of RAM allowing electronic device 502 to receive selective information and download the selective information to memory located within portable radio 500. In this manner, the downloaded music may be operable to be played within portable radio 500 while allowing electronic device to be removed from portable radio 500. Therefore, portable radio 500 including electronic device 502 allows a user to communicate selected audio information to portable radio 500.

FIG. 5B illustrates automobile console having a mount for coupling an electronic device according to one aspect of the present invention. Console 510 includes mount 511 operable to receive electronic device 512. Mount 511 may be located in many different locations within an automobile such as coupled to a sun visor, center console, dashboard, floorboard, etc. Mount 511 allows the user to couple electronic device 512 to the automobile and provide an interface for communication between electronic device 512 and the automobile audio system. Mount 511 may also include a power connection that allows electronic device 512 to use the automobiles power during use. The power connection may also be used in association with a recharging circuit operable to recharge a power supply within the electronic device. During operation, electronic device 512 coupled to mount 511 may receive selected audio information via wireless communication and communicate the selective information to the automobile audio system.

In one embodiment, the automobile may include memory operable associated with the automobile for storing information. The memory may be used in association with mount 511 and electronic device 512 to store the selected audio information. In this manner, voluminous audio information can be stored within the memory allowing electronic device 512 to receive additional information. In one embodiment, a mount may be provided for a home audio system (not shown) for downloading selected audio information for use with a home audio system. For example, a mount device may be coupled to a home stereo system such that the upon placing an electronic device such as electronic device 500 within the mount, selected audio information may be communicated to the home audio system thereby allowing a home audio system to be used in association with an electronic device.

FIG. 6 illustrates a block diagram of a system for communicating voice mail messages using email according to

13

one embodiment of the present invention. The system, indicated generally at **600**, includes email server **601** coupled to a voice mail storage device **602**. System **600** further includes a computer system or network terminal **603** such as a computer coupled to network **604**. System **600** further includes mount **605** for mounting electronic device **606** for hardware communication of information. Device **606** may also communicate with network **604** using a wirelessly communication network operably associated with network **604** and coupled, for example, via tower **607**.

During operation, system **600** communicates voice mail messages to a user utilizing email server **601**. For example, if a user receives a voice mail message, email server **601** would be notified and a voice mail message would be sent to the user's email account in the form of an email message. For example, a voice mail message would be sent to a user's email account within intranet **604** in the form of an audio file as an attachment to the email. Upon receiving the email, a user may click on the audio file representing the voice mail message to hear the message left by a caller.

In one embodiment, a user may be accessing the Internet via a phone line and, as such, be unable to receive notification that a voice mail message has been received. System **600** would receive the voice mail message and send an email comprising the voice mail message to the user email account. In this manner, a user can remain connected to the network and receive voice mail without having to log off or disconnect from the Internet. In one embodiment, a user may receive the voice mail message via a portable electronic device. For example, a user may be using remote device **605** operable to receive wirelessly communicated information. System **600** would receive the voice mail message and forward the voice mail message to a user's portable electronic device **606**. In this manner, a user may be capable of receiving voice emails at remote locations.

In another embodiment, a user may subscribe to use an Internet email account that may be operably associated with system **600**. Utilizing an Internet email account may allow a user the flexibility to check voice email messages from any location in the world. For example, a user may access a "Hotmail" email account while traveling on business in a foreign country. The user, upon gaining access to the "Hotmail" account, would be able to listen to voice mail messages sent to the user via the "Hotmail" email account. Through utilizing an email account to receive voice mail messages, a user may be afforded great flexibility in communicating voice mail messages. For example, a user may be able to forward a voice mail message received in the form of an email to one or a plurality of other email accounts. In this manner, a voice email message may be sent efficiently to other email users.

For example, a user may maintain a distribution list of individuals working on a particular project that may have a need to hear certain voice email messages. In this manner, a user may efficiently disseminate information to other individuals while adding additional textual information to the body of the email allowing a user to comment on the original voice email message. In another embodiment, a user may forward a received voice email message to another account operable to receive forwarded voice email messages. For example, system **600** may be operable to receive an email message having a voice mail message as an attachment. The system would then be operable to forward the voice mail message to specified phone number, separate email account, and/or voice mail account, etc. thereby providing a user flexibility in receiving voice email.

14

In one embodiment, a user may utilize an email account to establish an answering service for voice mails. For example, a user's telephone number may be operable with an email account to provide an answering service. A user may record a message for a specified phone number or extension and, upon receiving an incoming call; the recorded message may be played back to incoming the call's initiator. System **600** would then forward the received voice-mail message via an email account to the user. For example, a user may have an account set up at a residence for receiving voicemail messages via a user-defined email account. The user could then forward all received voice mails from the home account to an email account at a place of work. Therefore, the user may have complete access to received voicemail messages. In the same manner, a user could set up their work phone number to forward a voice-mail message to the user's home email account thereby allowing a user to receive a voicemail at a home email account. Therefore, system **600** may be operable in a plurality of ways to provide email messages comprised of voicemail messages received via a voice mail or email account.

FIG. 7 illustrates a flow chart for providing voice email messages according to one embodiment of the present invention. The method begins at step **701** where a voice mail message is left for a user. The message could be at a residence, place of business, etc. The method then proceeds to step **702** where the message may be stored as an audio file within a database operable to store a file comprised of the voice mail message. Upon storing the file, the method proceeds to step **703** where an electronic mail message may be generated. The electronic mail message may be addressed to the recipient of the voice mail message. The method then proceeds to step **704** where the audio file representing the voice mail message is attached to the electronic message.

Upon attaching the audio file, the method then proceeds to step **705** where the email message may be sent to the email address. Upon sending the email message the method proceeds to step **706** where the method determines if the email message should be sent to a wireless electronic device. If the message is not to be sent to a wireless device, the method proceeds to step **720** where the method ends. If the message is to be sent to a wireless electronic device, the method proceeds to step **707** where a signal may be sent to the wireless electronic device and at step **708** an indication is provided to the electronic device indicating that a voice-mail message has been received via a user's email account. The method may then proceed to step **709** where the user decides whether or not to listen to the voice email message. If the user decides not to listen to the voice email message, the method may proceed to step **710** where the method ends. If the user decides to listen to the voice email message, the method proceeds to step **711** where a request may be sent by the electronic device requesting the voice email message be forwarded to the user's electronic device.

At step **712**, the voicemail message may be sent to the user's electronic device. Upon forwarding the voicemail message to the user the method may proceed to step **720** where the method ends. As such, FIG. 7 depicts one method of providing an email message comprised of a voice mail message. Certainly, other methods may be deployed as advancements in technology and are made without departing for the spirit and scope of the present invention.

FIG. 8 illustrates a flow diagram of a method for providing selected audio information to an electronic device according to one embodiment of the present invention. The method begins at step **800** where a user accesses a webpage

15

via the Internet. The webpage may be a home page illustrated in FIG. 4 or other web pages operable to display selectable references to audio information. The method proceeds to step 801 where a user selects desirable audio information. For example, a user may select a single song, a plurality different songs, an entire album, a broadcast station, streaming audio, etc. or other selectable audio information. Upon the user selecting a reference to audio information, the method may proceed to step 802 where a playlist may be created that represents the user's selected audio information.

The playlist may be variable in size and comprised of a plurality of different types of available audio information. Upon creating a playlist, the method may proceed to step 803 where information associated with the playlist is obtained. For example, a list of network or URL locations comprised of the desirable audio information may be obtained. In this manner, desirable audio information may be obtained from many different sources such as URLs, network addresses, hard drives, databases comprised of audio information, etc. The sources may be accessed to obtain the selected audio information.

Upon obtaining data associated with the customized playlist, the method may proceed to step 804 where the user is prompted for a destination for the playlist. For example, a user may want to communicate the selected audio information to a remote electronic device, an automobile audio system, a home stereo system, a home computer, an electronic device coupled to a home network or computer system, etc. or other locations or devices operable to receive the selected audio information. In one embodiment, a user may select a device owned by a friend to accept the selected audio information. For example, a husband may want to send a romantic playlist to his wife on their anniversary. In this situation, the husband would select his wife's electronic device as the receiving device for the selected audio information.

Upon selecting a device, the method proceeds to step 805 where the method determines the destination of the selected audio information. If the information is to be sent to a device via a wire line connection, the method proceeds to step 813 where playlist data is sent to a user via a wire line connection. The method may then proceed to step 814 where the playlist is executed at the device. If the information is to be sent to a device requiring wireless communication, the method proceeds to step 806 where the information is formatted for communicating the information to a wireless electronic device. For example, a wireless PDA device may be selected as a destination device for the selected audio information. The PDA device may include an audio player, such as an MP3 player operable to play or execute MP3 audio files. In such an embodiment, the method could format the information such that the information may be wirelessly communicated and subsequently played by the MP3 player.

Upon formatting the information, the method may then proceed to step 807 where the audio information is wirelessly communicated to the selected device. In some embodiments, the device may be operable to receive a limited amount of information based upon storage capacity of the device (i.e., 16 MB). In such a case, the method may divide the information into component parts and periodically communicate the component parts, such as packets, to the electronic device. Upon communicating the audio information, the method may then proceed to step 808 where the signal may be received by the destination or electronic device.

16

The method may then proceed to step 809 where the method determines if all of the audio information has been received. For example, if 16 MB or 32 MB of selected audio information was initially transmitted due to capacity limitations of the selected device, the method may query the selected device to determine if capacity is available. If available memory exists, the method may proceed to step 807 where the method may communicate additional audio information based upon the amount of available memory. The method repeats until all of the selected audio information has been transmitted.

Upon communicating the selected information, the method may proceed to step 810 where the playlist may be executed. For example, a user may select a continuous communication of selected audio information (e.g., several hours of music. Internet broadcast, etc.). As such, the method may continuously play or execute the received audio information. In another embodiment, the method may proceed to step 811 where the method may store or buffer the received information until it is desirable to execute the received selected audio information. As such, upon executing the selected audio information, the method may proceed to step 809 where the method may repeat. In one embodiment, a user may elect to download a broadcast of an on-line radio station. For example, a user may want to listen to a radio station located in a remote location wherein conventional radio receivers could not receive the desired broadcast. For example, a person living in Houston, Tex. may not be able to receive a radio broadcast signal from a radio station in Seattle, Wash. utilizing a conventional radio receiver.

In accordance with the teachings of the present invention, a user may select an on-line broadcast or radio station as all or a part of the selected audio information. The user may then receive radio broadcasts without having to use a home computer system or conventional radio receiver.

At step 804, a user may select a device that does not require remote communication of information. For example, a user may elect to communicate the selected audio information to device, such as a personal computer, PDA device, MP3 player, etc. coupled via a network connection to the Internet or an Intranet. The user may receive the selected playlist at the determined device for eventual playing. In one embodiment, a user may select a plurality of devices as destination devices for receiving downloads of the selected audio information. For example, the user may want to download the information to a home stereo system, a PDA device, and an automobile stereo. As such, the selected information may be communicated to more than one destination device. In addition, the format of the download may match or conform to the selected destination device(s).

The present invention may be configured in a plurality of ways to communicate desirable audio information to users by allowing users to select desirable audio information and transmitting the desirable audio information to a specified destination thereby allowing a user to receive on-demand customized audio information. Moreover, the download may occur in an off-line environment, allowing a user to enjoy the selected audio information accessed on-line without having to be on-line or utilizing a browsing environment. In one embodiment of the present invention, the method of FIG. 8 may be modified to allow a user to select a "user group" for receiving customized audio information. For example, a "user group" may include users that prefer contemporary jazz wherein a user may request a certain song. Therefore, a virtual request line may be designed for

17

a specific genre of music allowing “members” to transmit audio information to the “group”.

In another embodiment of the present invention, the method may be modified to allow a user to select a specific genre to be transmitted to the users device. For example, a user may elect to have random country and western music transmitted to a destination device. The user could efficiently create a radio station format and have the format received at a destination device.

In a further embodiment, a user may select a group of genres to be downloaded to a desirable device. As such, the method may be modified to allow a user to select several different genres to download random music within the specified genres. In another embodiment, a user may elect to download the same music as another individual. For example, a user may want to download the same music as their best friend. Therefore the user could elect to download the same music as their friend or group of friends. In another example, a user may want to listen to the same music that an artist listens to on a specific weekday of evening. For example, a user may want to listen to the same music that Barry White listens to on a Saturday night.

Therefore, the user may select “Barry White’s” Saturday night playlist and receive the same playlist Barry White receives on Saturday night. In another embodiment, the method of FIG. 8 may be modified to allow a user to manipulate song post download. For example, a user may want to store, delete, replay, copy, forward, etc. received audio information. Therefore, the method of FIG. 4 may be modified such that a user can manipulate or process the received audio information in a plurality of ways. In one embodiment of the present invention, an on-line radio station may be provided. For example, the radio station may be created for transmitting audio or on-line broadcasts. The on-line broadcasters or hosts may create their own format for broadcast. For example, an on-line radio station may be provided that transmits only children’s songs.

Prior to conception of the present invention, conventional radio stations were monetarily limited to be capable of transmitting music such as children’s songs to conventional radio receivers. The present invention, by providing a medium for transmitting selectable audio information, enables the existence of on-line broadcasting with little or no overhead cost for a host. A user may select an on-line broadcast for on-line or off-line delivery. In another embodiment, on-line broadcast of audio information representing books or novels may be provided to individuals such as the visually impaired. For example, an on-line broadcast station may provide several hours of audio information broadcast representing books or novels to be broadcast with very little overhead.

FIG. 9 illustrates an automobile console having a mount for an electronic device according to one embodiment of the present invention. Console 900 includes a conventional audio system 901 comprised of a receiver 902 and CD player 903. Interface 904 may be coupled to audio system 901 via plug 905 and cable 908, which may be coupled to an auxiliary line into audio system 901. Interface 904 may also include contact 906 for contacting electronic device 907. Cable 908 may be a multiple conductive cable for providing power from the automobiles power system via a protection circuit or fuse 909 for powering electronic device 907. In one embodiment, interface 904 may be operable to recharge electronic device 907 utilizing a power source associated with an automobile.

During operation, electronic device 907 may be mounted within interface 904. Electronic device 907 may also be

18

powered or recharged via power line 910 and communicate with the systems audio system via interface cable or bus line 911. Audio information communicated to electronic device 907 may be transferred to audio system 901 such that a user may listen to selected audio information. For example, a user may have previously selected a plurality of audio files to be transmitted to electronic device 907. Electronic device 907 may communicate the selected audio information to the automobiles audio system that utilizes interface 901 thereby allowing the user to listen to selected audio information. In one embodiment, cable 908 may be custom-installed to audio system 901. For example, the cable may be coupled to an auxiliary line for the system’s radio or may be coupled to CD player line 912.

In another embodiment, a radio manufacturer may provide interface 904 as a standard interface integrated into the audio system, thereby allowing communication between electronic device 907, audio system 901 and/or console 900. Electronic device 907 may include a plurality of different types of devices. For example, electronic device 907 may include a PDA device operable to store selected audio information. The information may be either remotely downloaded using an Internet web browser and wireless communication to the PDA device. In another embodiment, selected audio information may communicated to a PDA device via a hard wire coupled to a computer system interfacing with the Internet. In another embodiment, electronic device 907 may include an audio file player operable to play audio files such as MP3s, etc.

The audio files may be remotely or locally communicated to electronic device 907 and upon coupling to audio system 901, the audio files may be transmitted to audio system 901 in a form receivable by audio system 901. Although the disclosed embodiments have been described in detail, it should be understood that various changes, substitutions and alterations can be made to the embodiments without departing from their spirit and scope.

The benefits, advantages, solutions to problems, and any element(s) that may cause any benefit, advantage, or solution to occur or become more pronounced are not to be construed as a critical, required, or essential feature or element of the present invention. Accordingly, the present invention is not intended to be limited to the specific form set forth herein, but on the contrary, it is intended to cover such alternatives, modifications, and equivalents, as can be reasonably included within the spirit and scope of the invention as provided by the claims below.

While the present invention has been described with respect to a limited number of embodiments, those skilled in the art will appreciate numerous modifications and variations therefrom. It is intended that the appended claims cover all such modifications and variations as fall within the true spirit and scope of this present invention.

What is claimed is:

1. A media system, comprising:

- a plurality of independent segment files, wherein a given segment file of the plurality of independent segment files has a given format and a different segment of the plurality of independent segment files has a different format, further wherein the given format facilitates an outputting of information in the given segment file at a given rate that is different than a rate associated with the different format;
- a playlist that comprises a list, and the list includes a first URL for the given segment file and a different URL for the different segment file;

19

a network-based communication system operable: to distribute media content to a remotely located requesting device; to receive an HTTP communication from the remotely located requesting device that indicates a desire to access the available media; to send information representing the playlist to the remotely located requesting device; to send information representing the given segment file to the remotely located requesting device; and, to send information representing the different segment file to the remotely located requesting device; and

a plurality of remote devices configured to request media, wherein each of the plurality of remote devices comprises: (1) an internal memory system; (2) a collection of instructions stored in the internal memory system that is operable when executed to utilize information representing the playlist, to request a streaming delivery of the information representing the given segment file, and to request a streaming delivery of the information representing the different segment file; and (3) a buffer configured to output the information representing the given segment file at the given rate and to output information representing the different segment file at the rate, which is different than the given rate.

2. The media system of claim 1, wherein at least one of the plurality of remote devices is a portable handheld device having a display, and the available media is a video.

3. The media system of claim 1, wherein the network-based communication system is configured to send the given segment file via a streaming delivery.

4. The media system of claim 1, wherein the plurality of independent segment files comprise serial component parts of the available media and segmenting the available media into the plurality of independent segment files facilitates the delivery of the available media to the remotely located requesting device via Internet-based communications.

5. The media system of claim 1, wherein at least one of the plurality of remote devices is a component of a home entertainment system, and the available media is a video.

6. The media system of claim 1, wherein the plurality of independent segment files comprise serial component parts of the available media and a formatting of the given segment into the given format encodes the given segment to facilitate an outputting of the given segment at the given rate, further wherein the formatting occurs prior to sending information representing the given segment file to the remotely located requesting device.

7. A media system, comprising:

a plurality of independent segment files that represent an available media, wherein a given segment file of the plurality of independent segment files has a given compression format and a different segment file of the plurality of independent segment files has a different compression format, further wherein the given compression format facilitates an outputting of information in the given segment file at a first rate that is different than a second rate associated with the different compression format;

a list including a given address for the given segment file and a different address for the different segment file;

a content delivering system comprising an electronic device operable as a communication device and a plurality of memory devices operable to store information, the content delivering system configured to receive an HTTP communication from a remote requesting device that indicates a desire to access the available media, to send the list in response to receiving

20

the HTTP communication, to receive an HTTP communication that indicates a request for the given segment file, to stream data representing the given segment file, to receive an HTTP communication that indicates a request for the different segment file, and to stream data representing the different segment file; and

the electronic device comprising a housing component at least partially defining an enclosure, a transceiver communicatively coupled to a communications network, and a processor located within the enclosure.

8. The media system of claim 7, wherein the available media comprises a video, further wherein the transceiver is communicatively coupled to the communications network via a wire line connection, the system further comprising: (1) an engine that divides the available media into the plurality of independent segment files and encodes the plurality of independent segment files into an appropriate format to facilitate a delivery of the available media to a requesting device; and (2) the remote requesting device.

9. The media system of claim 7, further comprising the remote requesting device, wherein the remote requesting device is a cellular telephone that comprises a display and an application that is configured, when executed at the cellular telephone, to facilitate presentation of a video component of the available media on the display.

10. The media system of claim 7, further comprising an application stored in a memory, the application configured for execution by a wireless enabled device, wherein the application when executed by the wireless enabled device facilitates the wireless enabled device acting as the remote requesting device.

11. The media system of claim 7, further comprising:

a digital engine in the content delivering system that is configured to maintain the list; and

a communication engine in the content delivering system that is configured to facilitate a receipt of requests and a communication of information in response to the receipt of requests.

12. The media system of claim 7, wherein the content delivering system is communicatively coupled to a wireless network and is configured to send the given segment via a streaming delivery that comprises at least one wireless link.

13. The media system of claim 10, wherein a collection of instructions included in the application are further operable to cause the wireless enabled device to consider an amount of buffer fill within an internal buffer before requesting the different segment file.

14. A media system, comprising:

an electronic device comprising a display, a buffering component, a transceiver, and a memory system, wherein the electronic device is configured to utilize HTTP in connection with receiving a streaming delivery of an available media;

a collection of instructions stored in the memory system and operable when executed to allow the electronic device: (1) to utilize HTTP to request a file comprising a listing of URLs for a plurality of media segment files associated with the available media; (2) to utilize the listing of URLs to request a given one of the plurality of media segment files; (3) to receive information representing the given one of the plurality of media segment files; (4) to utilize the listing of URLs to request another one of the plurality of media segment files, wherein the given one has a given compression format and the other one has a different compression format; and

21

the buffering component of the electronic device configured: to output information in the given one of the plurality of media segment files at a given rate, and to output information in the another one of the plurality of media segment files at a rate that is different than the given rate. 5

15. The media system of claim 14, further comprising: a housing component for the electronic device that at least partially defines an enclosure in which the memory system and the buffering component are secured, wherein the buffering component comprises a buffer; and 10

a local area wireless communication module secured within the enclosure.

16. The media system of claim 15, wherein the buffer facilitates presentation of a video media on the display, further wherein an amount of buffer fill in the buffer is considered in connection with determining which of an additional ones of the plurality of media segment files to request. 15

17. The media system of claim 14, wherein the electronic device further comprises an internal rechargeable battery and a non-circular physical interface, wherein the non- 20

22

circular physical interface includes at least a first contact to allow an external power source to recharge the internal rechargeable battery and a second contact to allow a communication of data.

18. The media system of claim 14, wherein the electronic device is selected from a group consisting of a cellular telephone device, a computer device, a home media device, and a personal digital assistant device.

19. The media system of claim 14, wherein the file is written in XML, further wherein the collection of instructions at least partially defines a web browser, further wherein the buffering component comprises a buffer, and further wherein the rate and the given rate are measured in bits per second. 10

20. The media system of claim 14, further comprising another collection of instructions stored in the memory system and operable when executed to communicate information representing a graphical interface presented on the display to a different electronic device to allow the different electronic device to present the graphical interface on a display associated with the different electronic device. 20

* * * * *